# **NACOmatic**

Effective: 26-Aug-2010 Expires: 23-Sep-2010



(Your Airplane Picture Here)

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#### INSTRUMENT APPROACH PROCEDURE CHARTS

## IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS ADRIAN, MI LENAWEE COUNTY RNAV (GPS) Rwy 5 RNAV (GPS) Rwy 23 NA when local weather not available.										
ALPENA, MI ALPENA COUNTY RGNL RNAV (GPS) Rwy 1 NA when local weather not available.										
ANN ARBOR, MI  ANN ARBOR MUNIRNAV (GPS) Rwy 6 <sup>1</sup> RNAV (GPS) Rwy 24 <sup>1</sup> VOR Rwy 6 <sup>2</sup> VOR Rwy 24 <sup>2</sup>										
<sup>1</sup> NA when local weather not available. <sup>2</sup> NA when control tower closed.										
BAD AXE, MI HURON COUNTY MEMORIALRNAV (GPS) Rwy 4 RNAV (GPS) Rwy 17										

BATTLE CREEK, MI	
W.K. KELLOGG	ILS or LOC Rwy 231
	RADAR-12
	RNAV (GPS) Rwy 53
	RNAV (GPS) Rwy 233
	VOR or TACAN Rwy 54
	VOR Rwy 23 <sup>3</sup>
VOR or T	ACAN or GPS Rwy 314
1NIA when central towe	r closed

RNAV (GPS) Rwy 22

RNAV (GPS) Rwy 35

NA when control tower closed.

<sup>2</sup>NA when Kalamazoo control tower closed.

<sup>3</sup>NA when local weather not available

NA when local weather not available.

<sup>4</sup>NA when control tower closed except for operators with approved weather reporting service.

NAME	ALTERNATE MINIMUM
BEAVER ISLAND,	MI
BEAVER ISLAND	RNAV (GPS) Rwy 27
NA when local wear	ther not available.

#### BELLAIRE, MI

ANTRIM COUNTY ...... RNAV (GPS) Rwy 212 VOR Rwy 23

<sup>1</sup>NA when local weather not available.

<sup>2</sup>Category D. 900-234.

3Categories A,B, 1000-2; Category C, 1000-23/4:

Category D, 1000-3.

### **BENTON HARBOR, MI**

SOUTHWEST

MICHIGAN RGNL ..... RNAV (GPS) Rwy 9 VOR Rwy 9

NA when local weather not available.

#### CADILLAC, MI

WEXFORD COUNTY ...... NDB Rwy 713 NDB Rwy 25<sup>2</sup> RNAV (GPS) Rwy 73 RNAV (GPS) Rwy 253

<sup>1</sup>Categories, A, B, 900-2; Category C, 900-21/2; Category D, 900-234.

<sup>2</sup>Category D, 800-21/4.

<sup>3</sup>NA when local weather not available.

#### CARO, MI

TUSCOLA AREA .....RNAV (GPS) Rwy 5 RNAV (GPS) Rwy 23 VOR/DME-A

NA when local weather not available.

#### CHARLEVOIX. MI

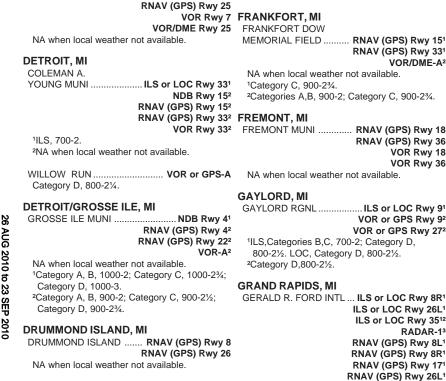
CHARLEVOIX MUNI ....... RNAV (GPS) Rwy 9 NA when local weather not available.





NAME

FLINT. MI





ALTERNATE MINIMUMS

ILS or LOC Rwy 27<sup>12</sup> RADAR-1<sup>1</sup>

RNAV (GPS) Rwv 272

BISHOP INTL .....ILS or LOC Rwy 91

<sup>1</sup>NA when control tower closed.

<sup>2</sup>NA when local weather not available.



RNAV (GPS) Rwy 26R1

<sup>1</sup>NA when local weather not available.

700-21/4. LOC. Category D. 800-21/4.

3NA when control tower is closed.

NA when local weather not available

**GRAYLING. MI** 

<sup>2</sup>ILS, Categories A, B, C, 700-2; Category D,

GRAYLING AAF ...... RNAV (GPS) Rwy 14

RNAV (GPS) Rwy 351

VOR Rwy 351

LOC. Category D. 800-21/4.

3NA when local weather not available.

<sup>2</sup>Category D, 800-21/4.

DELTA COUNTY .....ILS or LOC Rwy 91

<sup>1</sup>ILS, Category C, 700-2; Category D, 800-21/4.

LOC BC Rwy 272

VOR Rwy 923

VOR Rwy 2723

VOR Rwy 36<sup>2</sup>

RNAV (GPS) Rwy 923

RNAV (GPS) Rwy 2723

ESCANABA, MI

ALTERNATE MINS

NA when local weather not available.

FITCH H BEACH..... RNAV (GPS) Rwy 20

MEMORIAL ..... RNAV (GPS) Rwv 7

ALTERNATE MINIMUMS

NAME

CHARLOTTE. MI

COLDWATER. MI

**BRANCH COUNTY** 





ALTERNATE MINS	
NAME ALTERNATE MINIMUMS HANCOCK, MI	NAME ALTERNATE MINIMUMS  JACKSON, MI
HOUGHTON COUNTY MEMORIAL ILS or LOC Rwy 3112	JACKSON COUNTY-REYNOLDS FIELDILS or LOC Rwy 24 <sup>12</sup>
LOC/DME BC Rwy 13 <sup>23</sup>	NDB Rwy 24 <sup>-1</sup>
RNAV (GPS) Rwy 313	RNAV (GPS) Rwy 63
VOR Rwy 25 <sup>3</sup>	RNAV (GPS) Rwy 14 <sup>3</sup>
VOR Rwy 31 <sup>3</sup>	RNAV (GPS) Rwy 24 <sup>3</sup>
<sup>1</sup> ILS, Category D, 700-2¼; LOC, Category D,	RNAV (GPS) Rwy 323
800-21/4.	VOR Rwy 63
<sup>2</sup> NA when local weather not available.	VOR Rwy 14 <sup>3</sup>
<sup>3</sup> Category D, 800-21/4.	VOR Rwy 32 <sup>3</sup>
HARRON ORRINGS MI	VOR/DME Rwy 24 <sup>3</sup>
HARBOR SPRINGS, MI	<sup>1</sup> NA when control tower closed.
HARBOR SPRINGS RNAV (GPS) Rwy 10	<sup>2</sup> ILS, Category D, 700-2. <sup>3</sup> NA when local weather not available.
RNAV (GPS) Rwy 28  NA when local weather not available.	NA when local weather not available.
Category B, 900-2.	KALAMAZOO, MI
Oatogory D, 300 Z.	KALAMAZOO/BATTLE CREEK
HOLLAND, MI	INTLILS or LOC Rwy 35 <sup>1</sup>
TULIP CITY RNAV (GPS) Rwy 8	LOC BC Rwy 17 <sup>1</sup>
RNAV (GPS) Rwy 26	NDB Rwy 35 <sup>1</sup>
NA when local weather not available.	RADAR-11
HOUGHTON LAKE MI	VOR Rwy 5 <sup>12</sup>
HOUGHTON LAKE, MI	VOR Rwy 23³
ROSCOMMON COUNTY-	<sup>1</sup> NA when control tower closed.
BLODGETT MEMORIAL RNAV (GPS) Rwy 9 RNAV (GPS) Rwy 27	<sup>2</sup> Category D, NA. <sup>3</sup> NA when control tower closed, except for
NA when local weather not available.	operators with approved weather reporting
IVA WHEIT local weather flot available.	service.
HOWELL, MI	GOIVICO.
LIVINGSTON COUNTY	LUDINGTON, MI
SPENCER J HARDY RNAV (GPS) Rwy 13	MASON COUNTY RNAV (GPS) Rwy 8
RNAV (GPS) Rwy 31	RNAV (GPS) Rwy 26
VOR Rwy 31	NA when local weather not available.
NA when local weather not available.	MANUOTEE MI
IRON MOUNTAIN-KINGSFORD, MI	MANISTEE, MI
FORD RNAV (GPS) Rwy 1	MANISTEE COUNTY-BLACKERILS or LOC Rwy 27
RNAV (GPS) Rwy 19	ILS, Category D, 700-21/4. LOC, Category D,
VOR Rwy 31	800-21/4.
NA when local weather not available.	000 2/4.
	MARQUETTE, MI
IRONWOOD, MI	SAWYER INTLILS or LOC Rwy 11
GOGEBIC-	RNAV (GPS) Rwy 192
IRON COUNTY RNAV (GPS) Rwy 9	¹LOC, NA.
RNAV (GPS) Rwy 27	<sup>2</sup> NA when local weather not available.
VOR/DME Rwy 9	MENOMINEE MI
VOR/DME Rwy 27  NA when local weather not available	MENOMINEE, MI MENOMINEE-MARINETTE

NA when local weather not available.

Category A, B, 900-2; Category C, 900-21/2; Category D, 1000-3.

MENOMINEE-MARINETTE

TWIN COUNTY ...... RNAV (GPS) Rwy 3 RNAV (GPS) Rwy 21

RNAV (GPS) Rwy 32 VOR-A

NA when local weather not available.





## ALTERNATE MINS



NAME ALTERNATE MINIMUMS MIDLAND, MI JACK BARSTOW ..... RNAV (GPS) Rwy 6 RNAV (GPS) Rwv 24 VOR-A NA when local weather not available.

MONROE, MI CUSTER ..... RNAV (GPS) Rwv 3 RNAV (GPS) Rwy 21 VOR Rwy 31 VOR Rwy 21 NA when local weather not available.

<sup>1</sup>Category D, 800-21/4.

### MOUNT PLEASANT, MI

MOUNT PLEASANT MUNI RNAV (GPS) Rwv 9 RNAV (GPS) Rwv 27 VOR Rwv 27

NA when local weather not available.

#### MUSKEGON, MI

MUSKEGON COUNTY .....ILS Rwv 241 ILS or LOC Rwy 321 LOC BC Rwy 1412 RNAV (GPS) Rwy 142

RNAV (GPS) Rwy 322 VOR-A1 <sup>1</sup>NA when control tower closed.

<sup>2</sup>NA when local weather not available.

### **NEWBERRY. MI**

26 AUG 2010 to 23 SEP 2010

LUCE COUNTY ..... RNAV (GPS) Rwv 11 RNAV (GPS) Rwy 29 NA when local weather not available.

## OSCODA, MI

OSCODA-WURTSMITH .... RNAV (GPS) Rwy 6 RNAV (GPS) Rwy 24

NA when local weather not available.

#### OWOSSO, MI

OWOSSO COMMUNITY . RNAV (GPS) Rwy 10 RNAV (GPS) Rwy 28 VOR/DME Rwy 28

NA when local weather not available

NAME ALTERNATE MINIMUMS PELLSTON, MI

PELLSTON RGNL AIRPORT OF

EMMET COUNTY ..... ILS or LOC Rwv 3212 RNAV (GPS) Rwy 513

RNAV (GPS) Rwy 2314 RNAV (GPS) Rwv 3214

> VOR/DME Rwv 53 VOR Rwv 2314

<sup>1</sup>NA when local weather not available. <sup>2</sup>ILS, Category D, 700-21/4. LOC, Category D, 800-21/4.

3Categories A,B, 900-2; Category C, 900-21/2; Category D, 900-23/4.

4Category D, 800-21/4.

#### PONTIAC, MI

OAKLAND COUNTY

INTL .....ILS or LOC Rwy 9R12 LOC BC Rwy 27L1 RNAV (GPS) Rwy 9R3

RNAV (GPS) Rwv 27L3 VOR Rwv 9R3 VOR Rwy 27L3

<sup>1</sup>NA when control tower closed.

<sup>2</sup>ILS, LOC, Categories A, B, C, D, 700-2.

<sup>3</sup>NA when local weather not available.

#### SAGINAW, MI

SAGINAW COUNTY

H W BROWNE .....ILS or LOC/DME Rwy 27 RNAV (GPS) Rwv 91 RNAV (GPS) Rwv 27

NA when local weather not available.

<sup>1</sup>Category C, 800-21/4.

MBS INTL ..... ILS or LOC Rwy 51 ILS or LOC Rwy 232 RADAR-11

RNAV (GPS) Rwy 53 RNAV (GPS) Rwv 143 RNAV (GPS Rwv 233

RNAV (GPS) Rwy 323 VOR Rwy 54

VOR Rwy 144 VOR Rwy 324

<sup>1</sup>NA when control tower closed.

<sup>2</sup>DME or radar required; NA when control tower

<sup>3</sup>NA when local weather not available. <sup>4</sup>NA for NON-DME equipped aircraft when

control tower closed.







NAME ALTERNATE MINIMUMS SAULT STE MARIE, MI

**CHIPPEWA** 

COUNTY INTL ..... RNAV (GPS) Rwy 16

RNAV (GPS) Rwy 34 VOR-A1

NA when local weather not available.

<sup>1</sup>DME standard, ADF NA.

### SOUTH HAVEN, MI

SOUTH HAVEN

AREA RGNL ..... RNAV (GPS) Rwy 4 RNAV (GPS) Rwy 22

VOR Rwv 22

NA when local weather not available.

#### SPARTA, MI

PAUL C MILLER-

SPARTA ...... RNAV (GPS) Rwv 7 RNAV (GPS) Rwy 25

VOR-A NA when local weather not available.

#### STURGIS, MI

26 AUG 2010 to 23 SEP

KIRSCH MUNI ..... RNAV (GPS) Rwy 18

RNAV (GPS) Rwy 36 NA when local weather not available.

Category D, 800-21/4.

#### TRAVERSE CITY, MI

CHERRY CAPITAL .....ILS Rwy 2812

NDB or GPS Rwy 2823

RNAV (GPS) Rwy 1045 VOR or TACAN or GPS-A3

<sup>1</sup>ILS, Categories A.B, 800-2; Category C,

800-21/4; Category D, 800-21/2. LOC, Category

C, 800-21/4; Category D, 800-21/2. <sup>2</sup>NA when control tower closed.

3Category C, 800-21/4, Category D, 800-21/2.

<sup>4</sup>Categories A, B, 1400-2; Categories C, D,

1400-3.

<sup>5</sup>NA when local weather not available.

#### WEST BRANCH, MI

WEST BRANCH

COMMUNITY ..... RNAV (GPS) Rwy 91 RNAV (GPS) Rwy 27

NA when local weather not available.

**ALTERNATE MINS** 

<sup>1</sup>Category C, 800-21/4; Category D, 800-21/2.





EC-1

### RADAR INSTRUMENT APPROACH MINIMUMS

BATTLE CREEK, MI Amdt. 2, DEC 13,1990 (FAA) ELEV 952

W. K. KELLOGG RADAR - 119.2 340.9 ▼ ♠

HAT/ HAT/ DA/ HATh/ DA/ HATh/ HAA CEIL-VIS RWY GS/TCH/RPI CAT MDA-VIS CAT MDA-VIS HAA CEIL-VIS CIRCLING 1420-1 1440-1 Α 468 (500-1)В 488 (500-1) С **1480**-1½ 528 (600-11/2) D **1520**-2 568 (600-2) **1740**-2¾ 788  $(800-2\frac{3}{4})$ 

When Kalamazoo control tower closed, procedure not authorized.

When Battle Creek control tower closed, use Kalamazoo altimeter setting and increase all MDA's 60 feet and Category E visibility ¼ mile.

FLINT, MI BISHOP INTL

26 AUG 2010 to 23 SEP 2010

Amdt. 8A, APR 13, 2006 (FAA)

ELEV 782

HAT/

RADAR - 118.8 257.9 🔻 🛕

			DA/	HATh/		DA/	HATh/	
	RWY GS/TCH/RPI	CAT	MDA-VIS	HAA CEIL-\	/IS CAT	MDA-VIS	HAA	CEIL-VIS
ASR	36	ABC	<b>1180</b> -1	398 (400-1	) D	1180-11/4	398	(400-11/4)
	18	AB	<b>1300</b> -1	523 (600-1	) C	1300-11/2	523	(600-11/2)
		D	1300-13/4	523 (600-1	3/4)			
	27	ABC	1240-3/4	470 (500-3/	4) D	<b>1240</b> -1	470	(500-1)
CIRCLING	3	AB	<b>1300</b> -1	518 (600-1	) C	1300-11/2	518	(600-11/2)
		D	<b>1340</b> -2	558 (600-2	)			

HAT/

CAUTION: Brightly lighted parking lot 4000' E of approach end of rwy 27 can easily be confused for rwy 27. For inoperative MALSR, increase ASR Rwy 27 Categories A and B visibility to 1.

GRAND RAPIDS, MI

Amdt. 10C, AUG 26, 2010 (FAA)

ELEV **794** 

GERALD R. FORD INTL RADAR - 128.4 257.6 

▼ ▲

						HAT/			
			DA/	HATh/			DA/	HATh/	
	RWY GS/TCH/RPI	CAT	MDA-VIS	HAA	CEIL-VIS	CAT	MDA-VIS	HAA	CEIL-VIS
ASR	26L	ABC	<b>1100</b> /24	310	(400-1/2)	D	<b>1100</b> /50	310	(400-1)
	26R	AB	<b>1280</b> -1	493	(500-1)	С	<b>1280</b> -11/4	493	(500-11/4)
		D	<b>1280</b> -1½	493	(500-11/2)				
	8R	AB	1200-1/2	406	(500-1/2)	С	1200-3/4	406	(500-3/4)
		D	<b>1200</b> -1	406	(500-1)				
	8L	AB	<b>1220</b> -1	433	(500-1)	С	1220-11/4	433	(500-11/4)
		D	<b>1220</b> -1½	433	(500-11/2)				
CIRCLING		AB	<b>1280</b> -1	486	(500-1)	С	<b>1280</b> -1½	486	(500-1½)
		D	<b>1360</b> -2	566	(600-2)				

When control tower closed, ASR not authorized.

EC-1

## RADAR INSTRUMENT APPROACH MINIMUMS

## **RADAR MINS**

### RADAR INSTRUMENT APPROACH MINIMUMS

KALAMAZOO, MI Amdt. 9, OCT 25, 2007 (FAA)
KALAMAZOO/BATTLE CREEK INTL

**ELEV 874** 

RADAR-1 121.2 340.9 ▼ A

					HAT/				HAT/		
				DA/	HATh/			DA/ HATh/		I	
	<b>RWY</b>	GS/TCH/RPI	CAT	MDA-VIS	HAA	CEIL-VIS	CAT	MDA-VIS	HAA	CEIL-VIS	
ASR	35		AB	<b>1280</b> /24	412	(500-1/2)	С	<b>1280</b> /40	412	(500-3/4)	
			D	<b>1280</b> /50	412	(500-1)					
	17		AB	<b>1320</b> -1	453	(500-1)	С	1320-11/4	453	(500-11/4)	
			D	1320-11/2	453	(500-11/2)					
CIRCLING	3		AB	<b>1380</b> -1	506	(600-1)	С	1380-11/2	506	(600-11/2)	
			D	<b>1440</b> -2	566	(600-2)					

For inoperative MALSR, increase S-35 Cat D visibility to RVR 6000. When control tower closed, ASR NA.

LANSING, MI

26 AUG 2010 to 23 SEP 2010

Amdt. 15, APR 8, 2010 (FAA)

**ELEV 861** 

**CAPITAL REGION INTL** 

RADAR - 118.65 133.475 226.4 🔻

					HAI				HAII		
				DA/	HATh/			DA/ HATh/		l	
		RWY GS/TCH/RPI	CAT	MDA-VIS	HAA	CEIL-VIS	CAT	MDA-VIS	HAA	CEIL-VIS	
	ASR	10R	ABC	<b>1260</b> /24	399	(400-1/2)	D	<b>1260</b> /50	399	(400-1)	
		28L	AB	<b>1320</b> /24	469	(500-1/2)	С	<b>1320</b> /40	469	(500-3/4)	
			D	<b>1320</b> /50	469	(500-1)					
		6	AB	<b>1320</b> -1	462	(500-1)	С	1320-11/4	462	(500-11/4)	
			D	<b>1320</b> -1½	462	(500-1½)					
		24	AB	<b>1260</b> -1	403	(400-1)	CD	1260-11/4	403	(400-11/4)	
CIRCLIN		3	AB	<b>1380</b> -1	519	(600-1)	С	<b>1380</b> -1½	519	(600-1½)	
			D	1440 2	570	(600.3)					

For inoperative MALSR, increase S-10R Cat D visibility to RVR 6000. Visibility reduction by helicopters NA for Rwy 6, and Rwy 24. Lost Communications (All Rwys): As directed by ATC on initial contact.

EC-1

## RADAR INSTRUMENT APPROACH MINIMUMS

N2

10238

### RADAR INSTRUMENT APPROACH MINIMUMS

MUSKEGON, MI MUSKEGON COUNTY

Amdt. 15, JUN 3, 2010 (FAA)

ELEV 629

ΗΔΤ/

RADAR - 119.8 339.1 🔻

	·			HAT/				HAT/	
			DA/	HATh	I		DA/	HATh	1
	RWY GS/TCH/RPI	CAT	MDA-VIS	HAA	CEIL-VIS	CAT	MDA-VIS	HAA	CEIL-VIS
ASR	6	AB	<b>1140</b> -1	517	(600-1)	С	1140-11/2	517	(600-11/2)
		D	1140-134	517	(600-13/4)				
	14	AB	<b>1080</b> -1	453	(500-1)	С	1080-11/4	453	(500-11/4)
		D	1080-11/2	453	(500-11/2)				
	24	ABC	1040-3/4	413	(500-3/4)	D	<b>1040</b> -1	413	(500-1)
	32	AB	<b>1100/</b> 24	471	(500-1/2)	С	<b>1100</b> /40	471	(500-3/4)
		D	<b>1100</b> /50	471	(500-1)				
CIRCLING	3	AB	<b>1140</b> -1	511	(600-1)	С	1140-11/2	511	(600-1½)
		D	<b>1200</b> -2	571	(600-2)				

#### MISSED APPROACH INSTRUCTIONS:

RWY 6: Climb to 2500 then right turn direct MKG VORTAC and hold E, RT, 270° inbound. RWY 14: Climb to 2500 then left turn direct MKG VORTAC and hold E, RT, 270° inbound. RWY 24: Climb to 2500 then left turn direct MKG VORTAC and hold E, RT, 270° inbound. RWY 32: Climb to 2500 then right turn direct MKG VORTAC and hold E, RT, 270° inbound.

Procedure NA when Muskegon Approach Control closed.

For inoperative MALSR increase S-24 visibility Cat A, B, and D 1/4 mile.

Visibility reduction by helicopters NA.

26 AUG 2010 to 23 SEP 2010

Lost communications (All Rwys): As directed by ATC on initial contact.

SAGINAW, MI Amdt. 9, AUG 1, 1985 (FAA) ELEV 668
MBS INTL

RADAR - 120.95 126.45 235.625 **V** A

					11/41/				11/41/	
				DA/	HATh	I		DA/ HATh/		1
		RWY GS/TCH/RPI	CAT	MDA-VIS	HAA	CEIL-VIS	CAT	MDA-VIS	HAA	CEIL-VIS
	ASR	23	ABC	1020-1/2	359	(400-1/2)	D	<b>1020</b> -1	359	(400-1)
		5	ABC	1060/24	394	(400-1/2)	D	<b>1060</b> /50	394	(400-1)
CIRCLING		3	Α	<b>1100</b> -1	432	(500-1)	В	<b>1120</b> -1	452	(500-1)
			С	<b>1120</b> -1½	452	(500-11/2)	D	<b>1220</b> -2	552	(600-2)

ΗΔΤ/

Category D S-5 visibility increased to RVR 6000 for inoperative SSALR. Category D S-23 visibility increased ½ mile for inoperative MALSR. When control tower not in operation, procedure NA.

EC-1

### RADAR INSTRUMENT APPROACH MINIMUMS

N3

INSTRUMENT APPROACH PROCEDURE CHARTS

## IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below, Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military takeoff minima, refer to appropriate service directives.

NAME

26 AUG 2010 to 23 SEP 2010

TAKE-OFF MINIMUMS

#### ADRIAN, MI

LENAWEE COUNTY (ADG)

ORIG 07130 (FAA)

TAKE-OFF MINIMUMS: Rwys11,29, NA-ATC. NOTE: Rwy 5, multiple trees beginning 1837' from departure end of runway, 149' left of centerline, up to 75' AGL/873' MSL. Multiple trees beginning 953' from departure end of runway, 146' right of centerline, up to 74' AGL/872' MSL. Rwy 23, tree 1231' from departure end of runway, 633' left of centerline, 55' AGL/849' MSL.

#### ALLEGAN, MI

PADGHAM FIELD (35D)

AMDT 2 10042 (FAA)

TAKE-OFF MINIMUMS: Rwys 15, 33, NA-

Environmental.

DEPARTURE PROCEDURE: Rwy 11, climb heading

103° to 1200 before turning right.

NOTE: Rwy 11, multiple trees beginning 46' from DER, 10' left of centerline, up to 97' AGL/806' MSL. Multiple trees beginning 1' from DER, 2' right of centerline, up to 100' AGL/794' MSL. Rwy 29, multiple trees beginning 37' from DER, 4' left of centerline, up to 83' AGL/802' MSL. Multiple trees beginning 22' from DER, 20' right of centerline, up to 84' AGL/803' MSL.

NAME

TAKE-OFF MINIMUMS

ALMA, MI

**GRATIOT COMMUNITY (AMN)** 

ORIG 10042 (FAA)

TAKE-OFF MINIMUMS: Rwy 9, 400-3 or std. w/min.

climb of 251' per NM to 1400.

NOTE: Rwy 9, multiple trees beginning 841' from DER, 438' right of centerline, up to 58' AGL/817' MSL. Multiple trees beginning 1383' from DER, 380' left of centerline, up to 71' AGL/820' MSL. Rwy 18, multiple trees beginning 1067' from DER, 152' right of centerline, up to 70' AGL/829' MSL. Multiple trees beginning 923' from DER, 374' left of centerline, up to 70' AGL/824' MSL. Rwy 27, multiple trees beginning 306' from DER, 272' right of centerline, up to 81' AGL/ 840' MSL. Multiple trees beginning 1168' from DER, 593' left of centerline, up to 93' AGL/852' MSL. Rwy 36, multiple trees beginning 239' from DER, 3' right of centerline, up to 86' AGL/845' MSL. Multiple trees beginning 143' from DER, 38' left of centerline, up to 103' AGL/852' MSL.

## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ALPENA. MI

ALPENA COUNTY RGNL (APN) ORIG 09015 (FAA)

NOTE: Rwy 1, tree 2293' from departure end of runway, 525' left of centerline, 100' AGL/749' MSL. Rwy 7, trees beginning 886' from departure end of runway, 567' right of centerline up to 100' AGL/774' MSL. Trees beginning 1059' from departure end of runway, 166' left of centerline up to 100' AGL/769' MSL. Rwy 19, trees beginning 1789' from departure end of runway, 270' left of centerline up to 100' AGL/779' MSL. Trees beginning 1049' from departure end of runway, 777' right of centerline up to 100' AGL/789' MSL. Vent on cable 44' from departure end of runway, 147' left of centerline up to 25' AGL/685' MSL. Rwy 25, trees beginning 652' from departure end of runway, 53' left of centerline up to 100' AGL/755' MSL. Trees beginning 1021' from departure end of runway, 25' left of centerline up to 100' AGL/755' MSL. Trees beginning 1021' from departure end of runway, 275' right of centerline up to 100' AGL/751' MSL.

#### ANN ARBOR, MI

ANN ARBOR MUNI (ARB) AMDT 8 07354 (FAA)

TAKE-OFF MINIMUMS: Rwys 12, 30, NA-Environmental.

NOTE: Rwy 6, multiple trees beginning 442' from departure end of runway, 47' right of centerline, up to 79' AGL/898' MSL. Building 312' from departure end of runway, 479' right of centerline, 15' AGL/838' MSL. Multiple trees beginning 635' from departure end of runway, 182' left of centerline, up to 59' AGL/887' MSL. Building 99' from departure end of runway, 35' left of centerline, 22' AGL/849' MSL. Rwy 24, multiple trees beginning 479' from departure end of runway, 473' left of centerline, up to 100' AGL/929' MSL. Multiple trees beginning 462' from departure end of runway, 486' right of centerline, up to 50' AGL/885' MSL. Terrain 138' from departure end of runway, 475' right of centerline, 0' AGL/837' MSL.

#### BAD AXE. MI

HURON COUNTY MEMORIAL (BAX) AMDT 4 07354 (FAA)

NOTE: Rwy 4, vehicle on road 244' from departure end of runway, 531'left of centerline, 15' AGL/774' MSL, Tree 810' from departure end of runway, 43' left of centerline, 100' AGL/859' MSL. Vehicle on road 223' from departure end of runway, 470' right of centerline, 15' AGL/774' MSL. Rwy 17, vehicle on road 164' from departure end of runway, on centerline, 15' AGL/784' MSL. Bush 81' from departure end of runway, 497' right of centerline, 4' AGL/757' MSL. Railroad 695' from departure end of runway, 684' right of centerline, 23 AGL/792' MSL. Terrain beginning 222' from departure end of runway, 70' right of centerline, 0' AGL/757' MSL. Trees beginning 855' from departure end of runway, 392' right of centerline, up to 100' AGL/879' MSL, Pole 1135' from departure end of runway, 755' left of centerline, 35' AGL/798' MSL. Terrain beginning 44' from departure end of runway, 9' left of centerline, 0' AGL/765' MSL. Trees beginning 1693' from departure end of runway, 372' left of centerline, up to 100' AGL/859' MSL. Rwy 22, terrain beginning 3' from departure end of runway, 172' left of centerline, 0' AGL/765' MSL. Tree 2334' from departure end of runway, 422' left of centerline, 100' AGL/869' MSL. Terrain beginning 49' from departure end of runway, 165' right of centerline, 0' AGL/762' MSL. Railroad 41' from departure end of runway, 390' right of centerline, 23' AGL/782' MSL. Rwy 35, antenna on tower 355' from departure end of runway, 478' right of centerline, 34' AGL/793' MSL. Antenna 359' from departure end of runway, 477' right of centerline, 30' AGL/793' MSL. Vehicle on road 575' from departure end of runway, 412' right of centerline, 15' AGL/778' MSL. Trees beginning 1259' from departure end of runway, 53' right of centerline, up to 100' AGL/842' MSL. Trees beginning 1509' from departure end of runway, 375' left of centerline, up to 100' AGL/859' MSL. Tower 1085' from departure end of runway, 698' left of centerline, 63' AGL/822' MSL.

#### BALDWIN, MI

BALDWIN MUNI (7D3)
ORIG 84075 (FAA)
TAKE-OFF MINIMUMS: Rwys5,9,23,27,300-1.

#### **BATTLE CREEK, MI**

W. K. KELLOGG (BTL)
AMDT 2 91346 (FAA)
TAKE-OFF MINIMUMS: Rwys 13, 31, 300-1.
DEPARTURE PROCEDURE: Rwy 31, climb runway heading to 1400 before turning.

#### BAY CITY, MI

JAMES CLEMENTS MUNI (3CM) AMDT 5 86128 (FAA)

TAKE-OFF MINIMUMS: Rwys 9, 18, 23, 27, 36, 300-1. Rwy 5, 900-2.

DEPARTURE PROCEDURE: Rwys 23, 27, 36, climb runway heading to 2100 before turning. Rwy 9, left turn climb heading 070° to 2100 before turning. Rwy 5, right turn climb heading 070° to 2100 before turning. Rwy 18, right turn climb heading 030° to 2100 before turning. Rwy 18, right turn climb heading 230° to 2100 before turning.

10210

## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES $\overline{V}$

10210

#### BEAVER ISLAND, MI

BEAVER ISLAND (SJX) ORIG 98001 (FAA)

TAKE-OFF MINIMUMS: Rwys 9,27, 300-1.

Rwys5,14,23,32, NA.

#### **BELLAIRE. MI**

ANTRIM COUNTY (ACB)

AMDT 6 06215 (FAA)

TAKE-OFF MINIMUMS: Rwy 2,700-3 or std. w/a min. climb of 417' per NM to 1500.

DEPARTURE PROCEDURE: Rwy 2, climb heading 022° to 1200 before turning right. Rwy 20, climb

heading 202° to 1300 before turning left. NOTE: Rwv 2, road 385' from departure end of runway.

528' right of centerline, 15' AGL/646' MSL. Multiple trees beginning 2535' from departure end of runway, 96' left of centerline, up to 100' AGL/884' MSL. Multiple trees beginning 406' from departure end of runway, 235' right of centerline, up to 100' AGL/1147' MSL. Tower 2.57 NM from departure end of runway, 3271' right of centerline, 168' AGL/1198' MSL

Rwy 20, multiple trees beginning 64' from departure end of runway, 204' right of centerline up to 100' AGL/693' MSL. Multiple buildings and antenna on tower beginning 2641' from departure end of runway, 909' right of centerline, up to 121' AGL/721' MSL. Multiple trees beginning 125' from departure end of runway, 220' left of centerline, up to 100' AGL/720' MSL.

#### BENTON HARBOR, MI

SOUTHWEST MICHIGAN RGNL (BEH) AMDT 6 10070 (FAA)

TAKE-OFF MINIMUMS: Rwy 31, 300-11/4 or std. w/a

min. climb of 283' per NM to 900. NOTE: Rwy 9, trees beginning 535' from DER, 409' right of centerline, up to 100' AGL/729' MSL. Tree 2414' from DER, 803' left of centerline, 69' AGL708' MSL. Fence beginning 175' from DER, 484' right of centerline, up to 7' AGL/656' MSL. Rwy 13, trees beginning 727' from DER, 75' right of centerline, up to 100' AGL/695' MSL. Pole 895' from DER, 216' right of centerline, 22' AGL/ 671' MSL. Trees beginning 1135' from DER, 59' left of centerline, up to 100' AGL/769' MSL. Rwy 18, trees beginning 715' from DER, 60' right of centerline, up to 97' AGL/727' MSL. Pole 576' from DER, 266' right of centerline, 25' AGL/652' MSL. Tree 1317' from DER, 171'left of centerline, 70' AGL/694' MSL. Rwy 27, trees beginning 58' from DER, 301' right of centerline, up to 100' AGL/744' MSL. Obstruction light on LOC 66' from DER, 43' right of centerline, 10' AGL/631' MSL. Pole 146' from DER, 312' left of centerline, 49' AGL/663' MSL. Rod 144' from DER, 312' left of centerline, 48' AGL/662' MSL. Trees beginning 130' from DER, 87' left of centerline, up to 100' AGL/689' MSL. Building 106' from DER, 262' left of centerline, 20' AGL/644' MSL. Obstruction light on LOC 66' from DER, on centerline, 10' AGL/630' MSL. Rwy 31, trees beginning 809' from

DER, 62' right of centerline, up to 100' AGL/819' MSL.

2221' from DER, 389' right of centerline, 75' AGL/694' MSL. Tree beginning 1103' from DER, 164' left of centerline, up to 100' AGL/769' MSL. Rwy 36, trees beginning 107' from DER, 54' right of centerline, up to 95' AGL/710' MSL. Tree 106' from DER, 53' left of centerline, 30' AGL/637' MSL. Transmission tower 2661' from DER, 103' left of centerline, 102' AGL/711' MSL.

Transmission tower 2164' from DER, 108' left of

centerline, 73' AGL/703' MSL. Transmission tower

#### BERRIEN SPRINGS, MI

ANDREW UNIVERSITY AIRPARK (C20)

ORIG 03023 (FAA)

TAKE-OFF MINIMUMS: Rwys 3, 13, 21, NA. Rwy 31, 700-11/2 or std. with a min. climb of 260' per NM to 1500.

NOTE: Rwy 31, tower 6789' northeast of departure end of runway, 565' AGL/1224' MSL.

#### **BIG RAPIDS. MI**

ROBEN-HOOD (RQB)

AMDT 5 96116 (FAA)

TAKE-OFF MINIMUMS: Rwys 14, 27, 300-1.

#### BOYNE FALLS, MI

**BOYNE MOUNTAIN (BFA)** 

AMDT 3 96340 (FAA)

TAKE-OFF MINIMUMS: Rwy 17, 1000-1. Rwy 35, 500-1. DEPARTURE PROCEDURE: Rwys 17,35, climb runway heading to 2000 before turning.

#### CADILLAC, MI

WEXFORD COUNTY (CAD)

AMDT 7 09183 (FAA)

TAKE-OFF MINIMUMS: Rwys 18, 36, NA-Environmental.

DEPARTURE PROCEDURE: Rwy 25, climb heading 250° to 1800 before turning left.

NOTE: Rwy7, trees beginning 783' from DER, 129' right of centerline, up to 53' AGL/1348' MSL. Trees beginning 849' from DER, 348' left of centerline, up to 74' AGL/ 1378' MSL. Poles beginning 1221' from DER, 596' left of centerline, up to 30' AGL/1336' MSL. Poles beginning 1228' from DER, 366' right of centerline, up to 38' AGL/ 1333' MSL. Train and tracks 1386' from DER, 819' left of centerline, 23' AGL/1335' MSL. Rwy 25, bush 14' from DER, 275' right of centerline, 10' AGL/1317' MSL. Vehicle and road 660' from DER, 623' left of centerline, 15' AGL/1327' MSL.

#### CARO, MI

TUSCOLA AREA (CFS)

AMDT 1 08325 (FAA)

TAKE-OFF MINIMUMS: Rwys 12, 30, NA-Environmental.

NOTE: Rwy 5, vehicle on highway 2163' from departure end of runway, 648' left of centerline, 17' AGL/786' MSL. Trees beginning 865' from departure end of runway, 248' right of centerline, up to 100' AGL/809' MSL. Rwy 23, trees beginning 990' from departure end of runway, 581' right of centerline, up to 100' AGL/789' MSL.

#### CHARLEVOIX, MI

CHARLEVOIX MUNI (CVX)

AMDT 4 05020 (FAA)

TAKE-OFF MINIMUMS: Rwys 4, 22, N/A.

NOTES: Rwy 9, terrain beginning at departure end of runway, left and right of centerline up to 660' MSL, Rwy 27, terrain beginning at departure end of runway, left and right of centerline up to 693' MSL.

10210

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## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

10210

#### CHARLOTTE, MI

FITCH H. BEACH (FPK) AMDT 2 92065 (FAA)

TAKE-OFF MINIMUMS: Rwys 2, 14, 20, 32, 300-1. DEPARTURE PROCEDURE: Rwy 20, climb runway heading to 1500 before turning.

#### CHEBOYGAN, MI

CHEBOYGAN COUNTY (SLH)
AMDT 3 86156 (FAA)
TAKE-OFF MINIMUMS: Rwys 10,16,300-1.

### CLARE, MI

CLARE MUNI (48D)

TAKE-OFF MINIMUMS: Rwys 8, 13, 26, 31, 300-1.

#### COLDWATER, MI

BRANCH COUNTY MEMORIAL (OEB) AMDT 4 08101 (FAA)

TAKE-OFF MINIMUMS: Rwys 16,34, NA-Environmental.

NOTE: Rwy 4, vehicles on road and trees beginning 5 from departure end of runway, 92' right of centerline, up to 100' AGL/1059' MSL. Vehicles on road and trees beginning 347' from departure end of runway, 317' left of centerline, up to 100' AGL/1,059' MSL. Rwy 7, trees beginning 1246' from departure end of runway, 430' left of centerline, up to 100' AGL/1059' MSL. Vehicles on road and trees beginning 154' from departure end of runway, 315' right of centerline, up to 100' AGL/1039' MSL. Pole 336' from departure end of runway, 274' right of centerline, 18' AGL/977' MSL. Rwy 22, trains on railroad and trees beginning 769' from departure end of runway, 986' left to 945' right of centerline, up to 100' AGL/1099'MSL. Rwy 25, vehicles on road and trees beginning 1171' from departure end of runway, 394' left of centerline, up to 100' AGL/1,059' MSL. Trees beginning 732' from departure end of runway, 95' right of centerline, up to 100' AGL/1034' MSL.

#### DAVISON, MI

26 AUG 2010 to 23 SEP 2010

ATHELONE WILLIAMS MEMORIAL (6G0) AMDT 2 97338 (FAA) TAKE-OFF MINIMUMS: Rwys 8, 26, 300-1.

#### DETROIT, MI

COLEMAN A. YOUNG MUNI (DET)

AMDT 6 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-2 or std. w/min. climb of 211' per NM to 1400, or alternatively, w/ standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1500' prior to departure end of runway.

DEPARTURE PROCEDURE: **Rwy 33**, climb heading 328° to 1800 before turning.

NOTE: Rwv 7. multiple trees beginning 232' from departure end of runway, 20' left of centerline, up to 60' AGL/687' MSL. Multiple trees beginning 283' from departure end of runway, 44' right of centerline, up to 56' AGL/680' MSL, Stack 533' from departure end of runway, 66' right of centerline, 50' AGL/671' MSL. Obstruction light on stack on building 566' from departure end of runway, 18' right of centerline, 50' AGL/ 671' MSL. Obstruction light on floodlight 622' from departure end of runway, 104' left of centerline, 41' AGL/ 668' MSL. Light standard 149' from departure end of runway, 138' left of centerline, 37' AGL/654' MSL. Light standard 227' from departure end of runway, 105' right of centerline, 33' AGL/654' MSL. Antenna on building 936' from departure end of runway, 84' right of centerline, 43' AGL/670' MSL. Obstruction light floodlight 909' from departure end of runway, 96' right of centerline, 41' AGL/ 668' MSL. Pole 466' from departure end of runway, 198' right of centerline, 30' AGL/654' MSL. Obstruction light on pole 132' from departure end of runway, on centerline, 16' AGL/637' MSL. Rwy 15, multiple trees beginning 589' from departure end of runway, 221' left of centerline, up to 69' AGL/683' MSL. Multiple trees beginning 299' from departure end of runway, 289' right of centerline, up to 52' AGL/679' MSL. Antenna on airport beacon 662' from departure end of runway, 667' left of centerline, 81' AGL/695' MSL. Pipe on obstruction light building 783' from departure end of runway, 597' left of centerline, 62' AGL/676' MSL. Obstruction light on building 1473' from departure end of runway, 556' right of centerline, 68' AGL/692' MSL. Tower 3376' from departure end of runway, 1118' right of centerline, 103' AGL/723' MSL. Antenna on building 803' from departure end of runway, 522' right of centerline, 35' AGL/656' MSL. Building 3749' from departure end of runway, 569' left of centerline, 114' AGL/723' MSL, Floodlight on building 1611' from departure end of runway, 657' left of centerline, 53' AGL/667' MSL. Rod on obstruction light building 450' from departure end of runway, 317' left of centerline, 20' AGL/637' MSL. Rwy 25, tower 2828' from departure end of runway, 1225' left of centerline, 141 AGL/770' MSL. Multiple trees beginning 909' from departure end of runway, 133' left of centerline, up to 76' AGL/703' MSL. Multiple trees beginning 334' from departure end of runway, 132' right of centerline, 58' AGL/685' MSL. Obstruction light on building 48' from departure end of runway, 240' left of centerline, 41' AGL/ 662' MSL. Railroad 1' from departure end of runway. 126' left of centerline, 29' AGL/650' MSL. Obstruction light on stack 454' from departure end of runway, 45' left of centerline, 35' AGL/659' MSL. Railroad 190' from departure end of runway, 40' left of centerline, 29' AGL/ 650' MSL. Obstruction light stack on building 949' from departure end of runway, 44' left of centerline, 41' AGL/ 668' MSL. Stack 958' from departure end of runway, 12' left of centerline, 41' AGL/668' MSL. Light standard 701' from departure end of runway, 145' right of centerline, 26' AGL/653' MSL. Stack 9474' from departure end of

runway, 2415' left of centerline, 241' AGL/872' MSL.

## TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

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#### **DETROIT, MI (CON'T)**

COLEMAN A. YOUNG MUNI (CON'T)

Rwy 33, multiple trees beginning 113' from departure end of runway, 118' left of centerline, up to 73' AGL/694' MSL. Multiple trees beginning 572' from departure end of runway, 84' right of centerline, up to 92' AGL/709' MSL. Flag pole 963' from departure end of runway, 379' left of centerline, 28' AGL/658' MSL.

#### DETROIT METROPOLITAN/WAYNE COUNTY (DTW)

ORIG 06159 (FAA)

NOTE: Rwv 3R, headwall 399' from departure end of runway, 566' right of centerline, 17' AGL/647' MSL. Rwy 4L, multiple transmission towers 1516' from departure end of runway, 827' left of centerline, up to 60' AGL/690' MSL, multiple antennas 2751' from departue end of runway, 762' right of centerline, up to 84' AGL/714' MSL. Rwy 4R, antenna on building 3348' from departure end of runway, 1301'left of centerline, 100' AGL/736' MSL Rwy 9L, multiple trees 968' to 2519' from departure end of runway, 462' left of centerline and 1173' right of centerline, up to 85' AGL/715' MSL. Rwy 9R, tree 1837' from departure end of runway, 947' right of centerline, 50' AGL/686' MSL. Rwy 21L, multiple trees 1079' to 3910' from departure end of runway, 586' left of centerline and 1188' right of centerline, up to 100' AGL/ 733' MSL. Rwy 22L, multiple trees 794' to 3694' from departure end of runway, 611' right of centerline and 1381' left of centerline, up to 110' AGL/740' MSL. Rwy 27R, rod on ASR 4461' from departure end of

#### WILLOW RUN (YIP) AMDT 9 07354 (FAA)

TAKE-OFF MINIMUMS: Rwy 27R, 200-11/2 or std. w/ min. climb of 206' per NM to 1000.

runway, 464' left of centelrine, 106' AGL/756' MSL.

NOTE: Rwy 5L, multiple trees beginning 1438' to 2887' from departure end of runway, from 119' to 438' left of centerline, up to 79' AGL/785' MSL. Rwy 5R, multiple trees beginning 1877' to 2472' from departure end of runway, from 134' to 922' left and right of centerline, up to 78' AGL/777' MSL. Rwy 9R, multiple trees beginning 827' to 2598' from departure end of runway, from 432' to 600' left and right of centerline, up to 77' AGL/780' MSL. Rwy 23L, tree 1304' from departure end of runway, 438' right of centerline, 42' AGL/757' MSL. Tree 2457' from departure end of runway, 720' left of centerline, 66' AGL/ 781' MSL. Rwy 23R, multiple trees and road with vehicle beginning 587' to 1333' from departure end of runway, from 282' to 814' left and right of centerline, up to 77 AGL/793' MSL. Rwy 27L, multiple trees and poles beginning 1273' to 2024' from departure end of runway, from 47' to 769' left and right of centerline, up to 90' AGL/805' MSL. Rwy 27R, railroad and lights beginning 564' to 1565' from departure end of runway, from 4' to 333' left of centerline, up to 54' AGL/770' MSL. Tree and lights beginning 102' to 1257' from departure end of runway, from 10' to 485' right of centerline, up to 55' AGL/771'MSL. Tower 7161' from departure end of runway, 502' left of centerline, 162' AGL/900' MSL. Rwy 32, multiple trees and poles beginning 701' to 1884' from departure end of runway, from 78' to 750' left of centerline, up to 84' AGL/798' MSL. Multiple trees 1157' to 1893' from departure end of runway, from 126' to 475' right of centerline, up to 66' AGL/780' MSL.

#### DETROIT/GROSSEILE, MI

GROSSE ILE MUNI (ONZ)

AMDT 4 97198 (FAA)

TAKE-OFF MINIMUMS: Rwys 4, 17, 22, 300-1. Rwy 35, 800-2 or 300-1 with a min. climb of 210' per NM to 1400

#### DOWAGIAC, MI

DOWAGIAC MUNI (C91)

AMDT 5 10210 (FAA)

TAKE-OFF MINIMUMS: Rwys 4, 21, NA-Environmental. NOTE: Rwy 9, building, 258' from DER, 549' right of centerline, 26' AGL/778' MSL. Multiple poles beginning 372' from DER, 432' right of centerline, up to 42' AGL/ 795' MSL. Antenna, 459' from DER, 367' right of centerline, 35' AGL/787' MSL. Antenna, 615' from DER, 341' right of centerline, 35' AGL/775' MSL. Multiple poles beginning 654' from DER, 341' left of centerline, up to 48' AGL/779' MSL. Trees beginning 667' from DER, 21' left of centerline, up to 77' AGL/839' MSL. Trees beginning 864' from DER, 7' right of centerline, up to 121' AGL/879' MSL. Rwy 27, trees beginning 21' from DER, 33' right of centerline, up to 93' AGL/828' MSL. Trees beginning 154' from DER, 112' left of centerline, up to 111' AGL/837' MSL.

#### DRUMMOND ISLAND, MI

DRUMMOND ISLAND (DRM)

ORIG 82301 (FAA)

TAKE-OFF MINIMUMS: Rwys 8, 26, 18, 36, 300-1.

#### EAST TAWAS, MI

IOSCO COUNTY (6D9)

ORIG 81106 (FAA)

DEPARTURE PROCEDURE: Rwys 8,26, climb runway heading to 1100 before turning.

#### **EATON RAPIDS, MI**

SKYWAY ESTATES (60G)

ORIG 90235 (FAA)

TAKE-OFF MINIMUMS: Rwys 8, 26, 300-1.

DEPARTURE PROCEDURE: Rwys 8, 26, climb runway heading to 2500 before turning.

#### ESCANABA, MI

**DELTA COUNTY (ESC)** 

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: Rwy 36, 400-21/4 or std. w/min. climb of 261' per NM to 1100.

NOTE: Rwy 9, vehicles on roadway at DER, 272' right of centerline, 15' AGL/607' MSL. Trees beginning 1013' from DER, 444' left of centerline, up to 100' AGL/690' MSL. Trees beginning 1185' from DER, 55' right of centerline, up to 100' AGL/690' MSL. Rwy 18, buildings 1' from DER, 480' right of centerline, up to 26' AGL/616' MSL, Fences 139' from DER, 402' right of centerline, up to 9' AGL/599' MSL. Pole 255' from DER, 563' right of centerline, 20' AGL/618' MSL. Trees beginning 329' from DER, 18' left of centerline, up to 100' AGL/664' MSL. Trees beginning 375' from DER, 19' right of centerline, up to 100' AGL/673' MSL. Rwy 36, tower 1.87 NM from DER, 2362' left of centerline, 293' AGL/915' MSL. Vehicles on roadway beginning 41' from DER, 40' right of centerline, 15' AGL/621' MSL. Trees beginning 349' from DER, 555' right of centerline, up to 100' AGL/ 697' MSL. Trees beginning 366' from DER, 2' left of centerline, up to 100' AGL/700' MSL.

## $oldsymbol{\overline{V}}$ take-off minimums and (obstacle) departure procedures $oldsymbol{\overline{V}}$

#### FLINT. MI

BISHOP INTL (FNT)

AMDT 5 02052 (FAA)

NOTE: Rwv 18, trees 1200' from departure end of runway. 500' right of centerline, 65' AGL/863' MSL.

#### FRANKFORT. MI

FRANKFORT DOW MEMORIAL FIELD (FKS) AMDT 2 97282 (FAA)

TAKE-OFF MINIMUMS: Rwy 15, 500-2 or std. with a min. climb of 360' per NM to 1300. Rwy 33, 300-2. DEPARTURE PROCEDURE: Rwy 33, climb runway heading to 1500 before turning

#### FREMONT, MI

FREMONT MUNI (FFX)

ORIG 09351 (FAA)

TAKE-OFF MINIMUMS: Rwy 27, 300-11/2 or std. w/a min climb of 211' per NM to 1100, or alternatively, with standard takeoff minimums and a normal 200' per NM climb gradient, take-off must occur no later than 1400' prior to DER.

NOTE: Rwy 9, trees beginning 947' from DER, on centerline, up to 100' AGL/866' MSL, Rwy 18, trees beginning 1055' from DER, 763' right of centerilne, up to 100' AGL/859' MSL. Pole 1140' from DER, 617' right of centerline, 27' AGL/784' MSL. Trees beginning 2276' from DER, 1029' left of centerline, up to 100' AGL/847' MSL. Rwy 27, trees beginning 816' from DER, 635' right of centerline, up to 100' AGL/876' MSL. Trees beginning 2640' from DER on centerline, up to 100' AGL/876' MSL. Trees beginning 1.18 NM from DER, 1830' right of centerline, up to 100' AGL/960' MSL. Rwy 36, terrain 81' from DER, 484' left of centerline, 774 MSL. Transmission poles beginning 1157 from DER, 728' left to 497' right of centerline, up to 40' AGL/ 817' MSL. Catenary 1564' from DER, 41' right of centerline, 37' AGL/814' MSL. Trees beginning 1584' from DER, 577' left to 412' right of centerline, up to 67' AGL/844' MSL.

#### GAYLORD, MI

AUG 2010 to 23 SEP 2010

GAYLORD RGNL (GLR) ORIG 09127 (FAA)

NOTE: Rwy 9, trees beginning 917' from DER, 318' right of centerline, up to 57' AGL/1387' MSL. Trees beginning 918' from DER, 357' left of centerline, up to 79' AGL/ 1407' MSL, Ceilometer 166' from DER, 258' left of centerline, 4' AGL/1334' MSL, Rwv 18, powerline pylon 2125' from DER, 917' right of centerline, 79' AGL/1398' MSL. Bushes beginning 18' from DER, 255' left of centerline, up to 21' AGL/1338' MSL. Rwy 27, trees beginning 2870' from DER, 345' right of centerline, up to 83' AGL/1403' MSL, Tree 2906' from DER, 234' left of centerline, 75' AGL/1395' MSL. Rwy 36, trees and bush beginning 79' from DER, 191' left of centerline, up to 54' AGL/1374'MSL.

#### GLADWIN, MI

CHARLES ZETTEL MEMORIAL (GDW) AMDT 2 97086 (FAA) TAKE-OFF MINIMUMS: Rwy 27, 600-2.

Rwy 33, 500-2.

#### **GRAND HAVEN. MI**

GRAND HAVEN MEMORIAL AIRPARK (3GM) AMDT 4 83272 (FAA)

TAKE-OFF MINIMUMS: Rwvs 18. 36. 300-1. DEPARTURE PROCEDURE: Rwys 9, 18, 27, 36, climb runway heading to 1100 before turning.

#### **GRAND LEDGE. MI**

ABRAMS MUNI (4D0) AMDT 2 93147 (FAA)

> TAKE-OFF MINIMUMS: Rwvs 18, 27, 36, 300-1 or std. with a min. climb of 300' per NM to 1200.

#### GRAND RAPIDS. MI

GERALD R. FORD INTL (GRR)

AMDT 2 09183(FAA)

NOTE: Rwy 8L, vehicle on road 20' from DER, 156' left of centerline, 15' AGL/794' MSL. Trees beginning 1419' from DER, 740' left of centerline, up to 100' AGL/859' MSL. Rwy 17, trees beginning 1382' from DER, 134' left of centerline, up to 100' AGL/929' MSL. Trees beginning 1389' from DER, 819' right of centerline, up to 100' AGL/899' MSL. Rwy 26R, terrain beginning 102' from DER, 381' right of centerline, up to 808' MSL. Rwy 35, vehicle on road 742' from DER, 675' left of centerline, up to 15' AGL/804' MSL. Trees beginning 2002' from DER, 715' left of centerline, up to 100' AGL/ 869' MSL. Trees beginning 1339' from DER, 7' right of centerline, up to 100' AGL/879' MSL.

#### **GRAYLING, MI**

GRAYLING AAF (GOV)

AMDT 3 10154 (FAA)

NOTE: Rwy 5, tree 1192' from DER, 275' right of centerline, 56' AGL/1215' MSL. Tree 1684' from DER, 600' left of centerline, 56' AGL/1225' MSL. Rwy 14, tree 435' from DER, 402' right of centerline, 57' AGL/1216' MSL, Antenna 3937' from DER, 1179' right of centerline. 136' AGL/1279' MSL. Rwy 23, trees beginning 1438' from DER, 29' right of centerline, up to 100' AGL/1269' MSL. Rwy 32, trees beginning 1611' from DER, 50' left of centerline, up to 66' AGL/1216' MSL.

#### GREENVILLE, MI

**GREENVILLE MUNI (6D6)** AMDT 2 02164 (FAA) TAKE-OFF MINIMUMS: Rwy19, 300-1.

#### HANCOCK, MI

HOUGHTON COUNTY MEMORIAL (CMX) AMDT 2 89208 (FAA)

TAKE-OFF MINIMUMS: Rwy 25, 300-1.

DEPARTURE PROCEDURE: Rwys 25, 31, climb runway heading to 1500 before turning.

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## $\overline{f V}$ take-off minimums and (obstacle) departure procedures $\overline{f V}$ 10210

### HARBOR SPRINGS, MI

HARBOR SPRINGS (MGN) AMDT 2 08073 (FAA)

TAKE-OFF MINIMUMS: Rwv 28, 300-11/2 or std. w/min. climb of 295' per NM to 2000.

DEPARTURE PROCEDURE: Rwv 10. Climb heading 101° to 1400 before proceeding on course, Rwv 28. Climb heading 281° to 2000 before turning right. NOTE: Rwy 10, trees beginning abeam departure end of runway, 350' right of centerline, up to 100' AGL/788' MSL. Vehicle and road beginning 188' from departure

end of runway, left to right of centerline, up to 15' AGL/ 736' MSL. Trees beginning 1671' from departure end of runway, 720' left of centerline, up to 100' AGL/821' MSL. Rwy 28, trees beginning abeam departure end of runway, 398' left of centerline, up to 100' AGL/723' MSL. Trees beginning abeam departure end of runway, 313' right of centerline, up to 100' AGL/936' MSL. Vehicle and road

beginning abeam departure end of runway, left to right of

#### HASTINGS. MI

HASTINGS (9D9)

ADMT 4 95117 (FAA)

TAKE-OFF MINIMUMS: Rwys 9,12,18,27, 300-1.

#### HILLSDALE, MI

HILLSDALE MUNI (JYM)

ORIG 97310 (FAA)

TAKE-OFF MINIMUMS: Rwy 10, 300-1.

centerline, up to 15' AGL/720' MSL.

#### HOLLAND, MI

AUG 2010 to 23 SEP 2010

TULIP CITY (BIV)

AMDT 1 09183 (FAA)

NOTE: Rwv 8, vehicles on road beginning 48' from DER. 500' right of centerline, up to 15' AGL/694' MSL, Trees beginning 1828' from DER, 829' left of centerline, up to 72' AGL/741' MSL. Rwy 26, vehicles on road beginning 86' from DER, 517' left of centerline, up to 15' AGL/714' MSL, pole 805' from DER, 475' left of centerline, 35' AGL/734' MSL, trees 1056' from DER, 468' left of centerline, up to 41' AGL/740' MSL.

#### HOUGHTON LAKE, MI

ROSCOMMON COUNTY-BLODGETT

MEMORIAL (HTL)

AMDT 1 07298 (FAA)

TAKE-OFF MINIMUMS: Rwy 9, 200-11/4, or std. w/min. climb of 237' per NM to 1400. Rwys 18, 36, NA-ATC. DEPARTURE PROCEDURE: Rwy 27, climb heading 274° to 2600 before turning south.

NOTE: Rwv 9, multiple trees beginning 2330' from departure end of runway, on centerline, up to 71' AGL/ 1216' MSL. Multiple trees beginning 5927' from departure end of runway 275' left of centerline, up to 100' AGL/1299' MSL. Terrain beginning 31' from departure end of runway, 215' right of centerline, up to 0' AGL/1165' MSL. Terrain beginning 43' from departure end of runway, 84' left of centerline, up to 0' AGL/1162' MSL.

Rwv 27, multiple trees beginning 791' from departure end of runway, on centerline, up to 90' AGL/1239' MSL. Fence and road beginning 323' from departure end of runway, on centerline, up to 15' AGL/1164' MSL. Terrain beginning 100' from departure end of runway, 171' right of centerline, up to 0' AGL/1165' MSL. Terrain beginning 112' from departure end of runway, 128' left of centerline, up to 0' AGL/1162' MSL.

#### HOWELL, MI

LIVINGSTON COUNTY SPENCER J. HARDY (OZW)

AMDT3 06215 (FAA)

NOTE: Rwy 31, multiple trees and light pole beginning 138' from departure end of runway, 334' right of centerline, up to 88' AGL/1030' MSL. Multiple trees beginning 914' from departure end of runway, 483' left of centerline, up to 83' AGL/1012' MSL, Rwv 13, tree 1776' from departure end of runway, 696' right of centerline, 70' AGL/1009' MSL.

#### IONIA, MI

IONIA COUNTY (Y70)

ORIG 83230 (FAA)

DEPARTURE PROCEDURE: Rwys 9, 18, 27, 36, climb runway heading to 1400 before turning.

#### IRON MOUNTAIN-KINGSFORD, MI

FORD (IMT)

AMDT 5 09071 (FAA)

TAKE-OFF MINIMUMS: Rwv 13, 300-1 or std. w/min. climb of 590' per NM to 1400. Rwy 31, 300-11/4 or std. w/ min. climb of 260' per NM to 1400

DEPARTURE PROCEDURE: Rwy 1, climb heading 010° to 1700 before turning right. Rwy 13, climb heading 134° to 1900 before turning left.

NOTE: Rwy 1, trees and bushes beginning 526' from DER, 292' right of centerline, up to 79' AGL/1259' MSL. Antenna, trees and bushes beginning 378' from DER, 192' left of centerline, up to 76' AGL/1276' MSL. Rwy 13, tree 1276' from DER, 312' right of centerline, 88' AGL/ 1188' MSL. Trees and poles beginning 547' from DER, 100' left of centerline, up to 86' AGL/1306' MSL. Rwy 19, trees beginning 992' from DER, 245' right of centerline, up to 56' AGL/1192' MSL. Trees beginning 1229' from DER, 376' left of centerline, up to 48' AGL/1183' MSL. Rwy 31, trees 1711' from DER, 113' right of centerline, 66' AGL/1186' MSL. Bush 165' from DER, 161' right of centerline, 11' AGL/1131' MSL. Trees beginning 66' from DER, 182' left of centerline, up to 95' AGL/1315' MSL.

#### IRONWOOD, MI

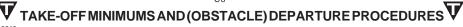
GOGEBIC-IRON COUNTY (IWD)

AMDT 6 09127 (FAA)

DEPARTURE PROCEDURE: Rwy 9, climb heading 090° to 2300 before turning right. Rwy 27, climb heading 270° to 1700 before turning left.

NOTE: Rwy 9, trees beginning 61' from DER, 544' left of centerline, up to 31' AGL/1244' MSL. Tree 1853' from DER, 972' left of centerline, 100' AGL/1346' MSL. Rwy 27, vehicle on road 287' from DER, 2' right of centerline, 15' AGL/1237' MSL. Tree 1946' from DER, 952' right of centerline, 69' AGL/1283' MSL. Tree 2817' from DER, 588' left of centerline, 74' AGL/1304' MSL.

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#### JACKSON, MI

JACKSON COUNTY-REYNOLDS FIELD (JXN) AMDT 5 09295 (FAA)

NOTE: Rwy 6, antenna 3131' from DER, 1331' left of centerline, 75' AGL/1075' MSL. Rwy 14, tank 2617' from DER, 373' left of centerline, 107' AGL/1107' MSL. Antenna 3102' from DER, 597' left of centerline, 111' AGL/1111'MSL. Trees beginning 1137' from DER, 8' left of centerline, up to 84' AGL/1083' MSL. Trees and poles beginning 518' from DER, 13' right of centerline, up to 114' AGL/1113' MSL. Road plus vehicle 541' from DER, 245' right of centerline, 15' AGL/1015' MSL Rwv 24, trees and poles beginning 367' from DER, 48' left of centerline, up to 80' AGL/1079' MSL. Buildings beginning 125' from DER, 372' left of centerline, 23' AGL/1022' MSL. Fence beginning 88' from DER, 247' right of centerline, 10' AGL/1002' MSL. Road plus vehicle 306' from DER, 3' right of centerline, 15' AGL/ 1007' MSL. Trees beginning 1231' from DER, 232' right of centerline, up to 62' AGL/1051' MSL. Localizer obstruction light 140' from DER, on centerline, 10' AGL/ 999' MSL. Rwy 32, trees and poles beginning 169' from DER, 69' left of centerline, up to 104' AGL/1093' MSL. Fence beginning 475' from DER, 148' left of centerline, up to 10' AGL/985' MSL. Trees beginning 94' from DER, 5' right of centerline, up to 103' AGL/1092' MSL. Fence beginning 278' from DER, 367' right of centerline, up to 10' AGL/999' MSL.

#### KALAMAZOO, MI

KALAMAZOO/BATTLE CREEK INTL (AZO) AMDT 9 07242 (FAA)

NOTE: Rwy 5, light pole 906' from departure end of runway, 511' left of centerline, 25' AGL/879' MSL. Multiple trees beginning 1433' from departure end of runway, 90' left of centerline, up to 65' AGL/914' MSL. Multiple towers beginning 2399' from departure end of runway, 331' right of centerline, up to 119' AGL/970' MSL. Multiple trees beginning 156' from departure end of runway, 163' right of centerline, up to 78' AGL/917' MSL. Rwy 9, multiple trees beginning 588' from departure end of runway, on centerline, up to 104' AGL/ 958' MSL. Antenna 2187' from departure end of runway, 222' right of centerline, 69' AGL/928' MSL. Tree 677 from departure end of runway, 214' right of centerline, 45' AGL/899' MSL. Rwy 17, railroad 587' from departure end of runway, 613' left of centerline, 17' AGL/885' MSL. Tree 691' from departure end of runway, 583' right of centerline, 57' AGL/894' MSL. Rwy 23, multiple trees beginning 937' from departure end of runway, 50' left of centerline, up to 72' AGL/956' MSL. Multiple poles and hangar beginning 22' from departure end of runway, 331' right of centerline, up to 24' AGL/905' MSL. Multiple trees beginning 943' from departure end of runway, 144' right of centerline, up to 107' AGL/986' MSL. Rwy 27, road 543' from departure end of runway, on centerline, 15' AGL/890' MSL. Multiple trees beginning 414' from departure end of runway, 292' left of centerline, up to 23' AGL/972' MSL. Multiple light poles and towers beginning 521' from departure end of runway, 18' right of centerline, up to 180' AGL/1015' MSL. Multiple trees beginning 1012' from departure end of runway, 23' right of centerline, up to 75' AGL/969' MSL. Rwy 35, multiple trees beginning 2319' from departure end of runway 163' left of centerline, up to 75' AGL/934' MSL. Multiple trees beginning 1961' from departure end of runway,

753' right of centerline, up to 77' AGL/936' MSL.

#### LAKEVIEW. MI

LAKEVIEW AIRPORT-GRIFFITH FIELD (13C) ORIG 98281 (FAA)

TAKE-OFF MINIMUMS: Rwy 27, 300-1 or std. with a min, climb of 400' per NM to 1200. NOTE: Rwv 9. 1018' tree 50' from departure end of

runway, 490' right of centerline.

#### LAMBERTVILLE, MI

TOLEDO SUBURBAN (DUH) AMDT 1 80360 (FAA)

TAKE-OFF MINIMUMS: Rwys 9, 27, 300-1.

#### LANSING. MI

CAPITAL REGION INTL (LAN)

AMDT 13 93147 (FAA)

TAKE-OFF MINIMUMS: Rwvs 6.10L.24.28R.300-1. DEPARTURE PROCEDURE: Rwys 10L,10R, climb runway heading to 2000 before turning south. Rwys 6, 24, 28L, 28R, climb runway heading to 1500 before turning southeast.

#### LAPEER. MI

DUPONT-LAPEER (D95) AMDT3 86156 (FAA) TAKE-OFF MINIMUMS: Rwys 9, 27, 300-1.

#### LINDEN, MI

PRICE'S (9G2) AMDT 4 98085 (FAA) TAKE-OFF MINIMUMS: Rwy 36, NA.

#### LUDINGTON, MI

MASON COUNTY (LDM) AMDT 6 92233 (FAA)

TAKE-OFF MINIMUMS: Rwys 1, 19, 26, 300-1.

#### MACKINAC ISLAND, MI

MACKINAC ISLAND (MCD) AMDT 1 80164 (FAA) DEPARTURE PROCEDURE: Rwy 8, climb runway heading to 1100 before turning right.

#### MARQUETTE, MI

SAWYER INTL (SAW)

ORIG 10098 (FAA)

NOTE: Rwy 19, trees beginning 2582' from DER, left and right of centerline, up to 100' AGL/1269' MSL.

#### MASON, MI

MASON JEWETT FIELD (TEW) AMDT 2A 10154 (FAA)

NOTE: Rwy 10, trees, pole, and vehicle on road beginning 109' from DER, 57' right of centerline, up to 100' AGL/1023' MSL. Poles and vehicles on road 276' from DER, 245' left of centerline, up to 35' AGL/944'

## $\overline{f V}$ take-off minimums and (obstacle) departure procedures $\overline{f V}$

10210

#### MENOMINEE, MI

MENOMINEE-MARINETTE TWIN COUNTY (MNM)

AMDT 3 09239 (FAA)

NOTE: Rwy 3, trees and bush beginning 196' from DER, 340' left of centerline, up to 100' AGL/719' MSL Multiple trees beginning 1568' from DER, 702' right of centerline, up to 100' AGL/759' MSL. Rwy 14, multiple trees, poles, and building beginning 451' from DER, 85' left of centerline, up to 135' AGL/735' MSL. Multiple trees and pole beginning 651' from DER, 171' right of centerline,up to 100' AGL/704' MSL. Rwy 21, multiple trees beginning 932' from DER, 469' left of centerline, up to 77' AGL/677' MSL. Multiple trees beginning 1808' from DER, 701' right of centerline, up to 65' AGL/685' MSL. Rwy 32, multiple trees beginning 64' from DER, 71' left of centerline, up to 100' AGL/739' MSL. Multiple trees beginning 875' from DER, 15' right of centerline, up to 100' AGL/759' MSL.

#### MIDLAND, MI

JACK BARSTOW (IKW)

ORIG 09183 (FAA)

NOTE: Rwy 6, trees beginning 56' from DER, 493' right of centerline, up to 25' AGL/655' MSL. Trees beginning 920' from DER, 47' left of centerline, up to 20' AGL/660' MSL. Trees beginning 1144' from DER, from right to left of centerline, up to 100' AGL/754' MSL. Pole 1495' from DER, 331' right of centerline, 37' AGL/672' MSL. Rwy 18, trees beginning 339' from DER, 279' left of centerline, up to 100' AGL/729' MSL. Trees beginning 358' from DER, 306' right of centerline, up to 100' AGL/ 724' MSL. Rwy 24, vehicles on road beginning 225' from DER, from right to left of centerline, up to 15' AGL/ 634' MSL. Trees beginning 510' from DER, 103' right of centerline, up to 100' AGL/710' MSL. Trees beginning 787' from DER, 152' left of centerline, up to 100' AGL/ 709' MSL. Rwy 36, trees beginning 105' from DER, 200' right of centerline, up to 100' AGL/744' MSL. Trees beginning 147' from DER, 242' left of centerline, up to 100' AGL/729' MSL.

#### MONROE, MI

AUG 2010 to 23 SEP 2010

CUSTER (TTF)

AMDT 6 08213

NOTE: Rwy 21, Trees and light poles beginning 81' from departure end of runway, 9' right of centerline, up to 122' AGL/736' MSL. Trees and light poles beginning 243' from departure end of runway, 218' left of centerline, up to 98' AGL/707' MSL. Road and vehicle beginning 1954' from departure end of runway, on centerline, 15' AGL/ 626' MSL

#### MOUNT PLEASANT, MI

MOUNT PLEASANT MUNI (MOP)

AMDT 5 09239 (FAA)

TAKE-OFF MINIMUMS: Rwys 5, 23, NA-Environmental.

NOTE: Rwy 9, trees beginning 420' from DER, 512' right of centerline, up to 86' AGL/845' MSL. Trees beginning 420' from DER, 266' left of centerline, up to 23' AGL/836' MSL. Rwy 27, trees beginning 1115' from DER, 39' right of centerline, up to 99' AGL/858' MSL. Trees beginning 1025' from DER, 3' left of centerline, up to 108' AGL/867' MSL.

#### MUSKEGON. MI

MUSKEGON COUNTY (MKG) AMDT 10 09015 (FAA)

NOTE: Rwy 6, tree 1700' from departure end of runway, 600' right of centerline, 25' AGL/672' MSL. Multiple trees beginning 1980' from departure end of runway, 300' left of centerline, up to 75' AGL/709' MSL, Rwv 14, pole 1040' from departure end of runway, 700' left of centerline, 25' AGL/655' MSL. Multiple poles beginning 1500' from departure end of runway, 880' right of centerline, up to 50' AGL/677' MSL. Tree 1900' from departure end of runway, 940' left of centerline, 79' AGL/709' MSL, Rwv 24, bush 124' from departure end of runway, 480' left of centerline, 19' AGL/630' MSL. Tree 500' from departure end of runway, 300' right of centerline, 42' AGL/649' MSL. Tree 1210' from departure end of runway, 450' left of centerline, 42' AGL/653' MSL. Antenna 1220' from departure end of runway, 500' right of centerline, 43' AGL/654' MSL. Multiple trees beginning 2200' from departure end of runway, 50' left of centelrine, up to 86' AGL/697' MSL. Rwy 32, tree 1040' from departure end of runway, 740' right of centerline, 65' AGL/659' MSL. Tree 1190' from departure end of runway, 500' left of centerline, 65' AGL/663' MSL. Tree 1270' from departure end of runway, 800' left of centerline, 89' AGL/690' MSL.

#### NEW HUDSON, MI

OAKLAND SOUTHWEST (Y47)

AMDT 2 88350 (FAA)

TAKE-OFF MINIMUMS: Rwys 7, 25, 300-1.

#### NEWBERRY, MI

LUCE COUNTY (ERY)

ORIG 10210 (FAA)

TAKE-OFF MINIMUMS: Rwys 4, 22, NA-Environmental. NOTE: Rwy 11, trees beginning 15' from DER, 112' right of centerline, up to 79' AGL/919' MSL. Trees beginning 1207' from DER, 10' left of centerline, up to 119' AGL, 969' MSL. Rwy 29, ground 1' from DER, 221' right of centerline, 0' AGL/872' MSL. Tree 1' from DER, 431' right of centerline, 12' AGL/872' MSL. Trees and antenna on building beginning 88' from DER, 13' left of centerline, up to 84' AGL/954' MSL. Trees, vehicle on road, and antenna on building beginning 561' from DER, 28' right of centerline, up to 89' AGL/959' MSL.

#### NILES, MI

JERRY TYLER MEMORIAL (3TR)

AMDT 5 10042 (FAA)

TAKE-OFF MINIMUMS: Rwys 4, 14, 22, 32, 300-1. DEPARTURE PROCEDURE: Rwys 4, 14, climb runway heading to 1400 before turning. Rwy 22, left turn climb heading 180° to 1400 before turning, Rwv 32, right turn climb heading 360° to 1400 before turning.

#### ONTONAGON, MI

ONTONAGON COUNTY-SCHUSTER FIELD (OGM)

AMDT 1 86072 (FAA)

TAKE-OFF MINIMUMS: Rwys 17, 35, 300-1.

10210

#### OSCODA, MI

OSCODA-WURTHSMITH (OSC) ORIG 08157 (FAA)

NOTE: Rwy 6, Trees beginning 3096' from departure end of runway, 967' left of centerline up to 100' AGL/719' MSL. Rwy 24, Trees beginning 2192' from departure end of runway, 578' right of centerline up to 100' AGL/739' MSL. Trees beginning 1415' from departure end of runway, 559' left of centerline, up to 100' AGL/739' MSL.

#### OWOSSO, MI

OWOSSO COMMUNITY (RNP)

AMDT 4 08213 (FAA)

TAKE-OFF MINIMUMS: Rwys 6, 18, 24, 36, NA-Environmental.

NOTE: Rwy 10, bush 187 from departure end of runway, 158' right of centerline, 3' AGL/742' MSL. Trees beginning 1136' from departure end of runway, 630' left of centerline, up to 75' AGL/814' MSL. Trees and pole beginning 1111' from departure end of runway, 596' right of centerline, up to 90' AGL/829' MSL. Powerline with towers beginning 2029' from departure end of runway, left and right of centerline, 90' AGL/829' MSL. Rwy 28, bush 212' from departure end of runway, 436' right of centerline, 11' AGL/741' MSL. Vent, trees, and a building beginning 266' from departure end of runway, 46' left of centerline, up to 100' AGL/836' MSL. Trees and a pole beginning 1184' from departure end of runway, 244' right of centerline, up to 60' AGL/815'

#### PELLSTON, MI

26 AUG 2010 to 23 SEP 2010

PELLSTON RGNL AIRPORT OF EMMET COUNTY (PLN)

AMDT 4 09183 (FAA)

TAKE-OFF MINIMUMS: Rwy 23, std. w/a min. climb of 260' per NM to 1800, or 1000-2½ for climb in visual conditions. Rwy 32, std. w/a min. climb of 290' per NM to 1100, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 23, 32**, for climb in visual conditions: cross Pellston Rgnl airport of Emmet County at or above 1600.

NOTE: Rwy 5, vehicle on road 411' from DER, 588' left of centerline, 15' AGL/738' MSL. Trees beginning 1070' from DER, 12' left of centerline, up to 100' AGL/838' MSL. Railroad 810' from DER, 672' right of centerline, 23' AGL/744' MSL. Trees beginning 1001' from DER, 288' right of centerline, up to 100' AGL/821' MSL.

Rwy 14, trees beginning 1290' from DER, 814' left of centerline, up to 100' AGL/805' MSL. Rwy 23, vehicle on road 14' from DER, 463' left of centerline, 15' AGL/720' MSL. Trees beginning 476' from DER, 53' left of centerline, up to 100' AGL/805' MSL. Trees beginning 953' from DER, 240' right tof centerline, up to 100' AGL/805' MSL. Trees beginning 953' from DER, 240' right tof centerline, up to 100' AGL/820' MSL. Rwy 32, bush 107' from DER, 309' right of centerline, 4' AGL/722' MSL. Vehicle on road 1213' from DER, 809' right of centerline, 15' AGL/752' MSL. Teresi beginning 4336' from DER, 315' right of centerline, up to 100' AGL/872' MSL. Trees beginning 1932' from DER, 20' left of centerline, up to 100' AGL/996' MSL.

#### PLYMOUTH, MI

CANTON-PLYMOUTH-METTETAL (1D2) TAKE-OFF MINIMUMS: Rwys 18, 36, 300-1.

#### PONTIAC, MI

OAKLAND COUNTY INTL (PTK)

AMDT 5 09295 (FAA)

TAKE-OFF MINIMUMS: Rwvs 17.35. NA-Environmental. NOTE: Rwy 9L, hangars beginning 203' from DER, 511' left of centerline, up to 30' AGL/1000' MSL. Rwy 9R, multiple trees beginning 1382' from DER, 647' left of centerline, up to 41' AGL/1011' MSL. Antenna on hangar 870' from DER, 732' right of centerline, 36' AGL/1006' MSL. Rwy 27L, trees 452' from DER, 331' right of centerline, 23' AGL/1002' MSL, Vehicle on road 388' from DER, 15' right of centerline, 15' AGL/992' MSL. Multiple trees beginning 449' from DER, 60' left of centerline, up to 76' AGL/1046' MSL. Rwy 27R, multiple trees beginning 451' from DER, 2' right of centerline, up to 62' AGL/1041' MSL. Vehicle on road 416' from DER, 24' right of centerline, 15' AGL/992' MSL. Multiple trees beginning 387' from DER, 19' left of centerline, up to 36' AGL/1015'MSL.

#### PORTHURON, MI

ST. CLAIR COUNTY INTL (PHN) AMDT 5 96060 (FAA)

TAKE-OFF MINIMUMS: Rwys 4, 10, 28, 300-1.

#### **ROGERS CITY, MI**

PRESQUE ISLE COUNTY (PZQ) AMDT1 86268 (FAA) TAKE-OFF MINIMUMS: Rwys 9, 27, 300-1.

#### ROMEO, MI

ROMEO STATE (D98) AMDT 4 08101 (FAA)

NOTE: Rwy 18, Vehicle on roadway 364' from departure end of runway, on centerline, 15' AGL/744' MSL. Trees beginning 1360' from departure end of runway, 854' left of centerline, up to 100' AGL/825' MSL. Rwy 36, Vehicle on roadway 579' from departure end of runway, on centerline, 15' AGL/759' MSL. Trees beginning 955' from departure end of runway, left and right of centerline, up to 100' AGL/845' MSL.

#### SAGINAW, MI

MBS INTL (MBS)

ORIG 86240 (FAA)

DEPARTURE PROCEDURE: **Rwys 5, 23**, climb runway heading to 1100 before turning.

SAGINAW COUNTY H.W. BROWNE (HYX) AMDT 7 86128 (FAA)

TAKE-OFF MINIMUMS: Rwys 5, 9, 23, 27, 400-1.

DEPARTURE PROCEDURE: Rwy 9, climb runway heading to 2100 before turning North. Rwys 23, 27, climb runway heading to 2100 before turning Northeast. Rwy5, right turn climb heading 090° to 2100 before turning North.

10210

## $\overline{f V}$ TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES $\overline{f V}$ 10210

#### SAULT STE MARIE, MI

CHIPPEWA COUNTY INTL (CIU)

ORIG 09295 (FAA)

NOTE: Rwy 9, buildings beginning 453' from DER, 519' right of centerline, up to 30' AGL/829' MSL. Building 723' from DER, 461' left of centerline, up to 30' AGL/829' MSL, Trees beginning 1838' from DER, 23' right of centerline, up to 100' AGL/899' MSL Rwy 16, trees beginning 3645' from DER, extending from 1018' right of centerline to 1221' left of centerline, up to 100' AGL/899' MSL, Rwy 27, vehicle on road, 412' from DER, 510' left of centerline, up to 15' AGL/804' MSL. Trees beginning 520' from DER, extending from 581' left of centerline to 827' right of centerline, up to

#### SELFRIDGE ANGB (KMTC)

100' AGL/879' MSL.

MT. CLEMENS, MI . . . . . . .AMDT 1. 09015

#### Rwv19\*

Rwy 1, 300-11/4\*\*

\* Standard with a CG of 260'/NM to 1600.

\*\* Or standard with CG of 280'/NM to 1000. DEPARTURE PROCEDURE: Rwy 19, For climb in visual conditions: Ceiling 1300'/Visibility 21/2

SM, remain within 5.6 NM of KMTC airport, cross KMTC airport at or above 1700 before proceeding on course. Max airspeed 250 KIAS.

Rwy 1, Standard with minimum climb of 280'/NM to 1000 or 300-11/4. TAKE-OFF OBSTACLES: Rwv 19: Powerpoles

2274' from DER 38' right of centerline, 36' AGL/ 616' MSL. Trees 3310' from DER 929' right of centerline, 80' AGL/660' MSL. Rwy 1: Rising terrain 6' out to 237' from DER beginning 500' out to 563' left of centerline, up to 585' MSL (up to 6'

above Thr). Fence from 68' out to 220' from DER beginning 341' to 523' right of centerline, 10' AGL/595' MSL. Trees starting 3043' out to 3099' from DER beginning 451' to 927' right of centerline, 80' AGL/660' MSL. Trees starting 2334' out to 3059' from DER beginning 1057' to 1105' left of centerline, 80' AGL/660' MSL. Vehicle 1560' from DER 427' left of centerline, 15' AGL/600' MSL. West bracket reflector 997' from

DER 226' left ofcenterline, 15' AGL/592' MSL.

#### SOUTH HAVEN, MI

SOUTH HAVEN AREA RGNL (LWA) AMDT 2 91234 (FAA)

TAKE-OFF MINIMUMS: Rwys 4, 14, 32, 300-1.

#### SPARTA, MI

PAUL C. MILLER-SPARTA (8D4)

AMDT 2 10126 (FAA)

NOTE: Rwy 7, multiple trees beginning 564' from DER, 105' right of centerline, up to 97' AGL/827' MSL. Tree 782' from DER, 379' left of centerline, 47' AGL/784' MSL.

Rwy 25, multiple trees beginning 507' from DER, 47' right of centerline, up to 81' AGL/841' MSL. Tree 117' from DER, 218' left of centerline, 47' AGL/817' MSL. Tree 656' from DER, 464' left of centerline, 67' AGL/822' MSL.

#### STURGIS, MI

KIRSCH MUNI (IRS) AMDT 2 96256 (FAA)

TAKE-OFF MINIMUMS: Rwy 6, 24, 300-1.

### TECUMSEH, MI

MEYERS-DIVER'S (3TE) AMDT2 96004 (FAA)

TAKE-OFF MINIMUMS: Rwy 9, 300-1.

#### TRAVERSE CITY, MI

CHERRY CAPITAL (TVC)

AMDT 9 98169 (FAA)

TAKE-OFF MINIMUMS: Rwys 18, 36, 300-1. Rwy 28, 700-2 or std. with min. climb of 300' per NM to

DEPARTURE PROCEDURE: Rwys 10, 18, 36, climb runway heading to 2000 before proceeding on course. Rwy 28, climbing left turn heading 240° to 2000 before proceeding on course.

#### TROY, MI

OAKLAND/TROY (VLL)

AMDT 3 92289 (FAA)

TAKE-OFF MINIMUMS: Rwy 27, 300-1. DEPARTURE PROCEDURE: Rwys 9, 27, climb runway

heading to 1200 before turning.

#### WEST BRANCH, MI

WEST BRANCH COMMUNITY (Y31)

AMDT 2 97086 (FAA)

TAKE-OFF MINIMUMS: Rwy 27, 500-2.

10210

127

DETROIT

DETROIT

COPTER

H-10G, L-28J

1-281

ABRAMS MUNI (See GRAND LEDGE)

at Lenawee Co. Unmonitored. ADRIAN

3 SW UTC-5(-4DT) N41°52.06′ W84°04.64′

MICHIGAN

NOTAM FILE ADG.

S4 FUEL 100LL, JET A NOTAM FILE ADG RWY 05-23: H5001X100 (ASPH) S-20 HIRL RWY 05: REIL. PAPI(P4L)-GA 3.0° TCH 32', P-line.

ADRIAN N41°52.20′ W84°04.65′

NDR (MHW) 278 ADG

LENAWEE CO (ADG)

purchase.

W84°27.51′

ALBERT J LINDBERG

ADRIAN NDB (MHW) 278

RWY 23: PAPI(P4L)-GA 3.0° TCH 32'. Trees. RWY 11-29: 1810X150 (TURF) RWY 29. Trees

RWY 11. Trees AIRPORT REMARKS: Attended 1300Z‡-dusk. Arpt unattended major

holidays except by prior arrangement; call arpt manager 517-265-2827, arpt manager ngts 517-442-8934. 24 hr self

serve fuel (100LL only) with credit card. Rwy 11-29 CLOSED Dec-Apr and when snow covered. Snow removal Rwy 05-23 only.

Taxi on hard surfaces only during spring thaw and wet conditions. Rwy 11-29 marked with 3' yellow cones. HIRL Rwy 05-23 preset low ints: to increase ints and ACTIVATE PAPI Rwv 05 and Rwy 23-CTAF, Ldg fee for commercial acft waived with fuel

WEATHER DATA SOURCES: ASOS 118.375 (517) 265-9089.

(See HESSEL)

15-33 surface rough, Rwy 15 marked with 3' vellow cones.

149° 29 NM to fld. 995/5W.

ADG N41°52.20′ W84°04.65′

R TOLEDO APP/DEP CON 134.35 RADIO AIDS TO NAVIGATION: NOTAM FILE IXN JACKSON (L) VORW/DME 109.6 JXN Chan 33 N42°15.55'

COMMUNICATIONS: CTAF/UNICOM 122.8

AERONUT PARK BALLOONPORT (See HOWELL)

**ALLEGAN** 

PADGHAM FLD (35D) 1 E UTC-5(-4DT) N42°31.83′ W85°49.42′

В S4 FUEL 100LL

NOTAM FILE LAN

RWY 11-29: H4300X75 (ASPH) S-18 MIRI RWY 11: REIL, PAPI(P4L)—GA 3.0° TCH 40', Trees.

RWY 29: REIL. PAPI(P4L)-GA 3.0°. TCH 40'. Trees. RWY 15-33: 1598X150 (TURF) RWY 15: Trees. RWY 33: Trees. AIRPORT REMARKS: Attended 1300Z‡-dusk. Parachute Jumping. Rwy

ACTIVATE MIRL Rwy 11-29, PAPI Rwy 11 and Rwy 29, REIL Rwy 29-CTAF. Rwy 11-29 parallel twy marked with reflectors. COMMUNICATIONS: CTAF/UNICOM 122.8 PULLMAN RCO 122.1R 112.1T (LANSING RADIO) (R) GRAND RAPIDS APP/DEP CON 128.4 (1030-0500Z±)

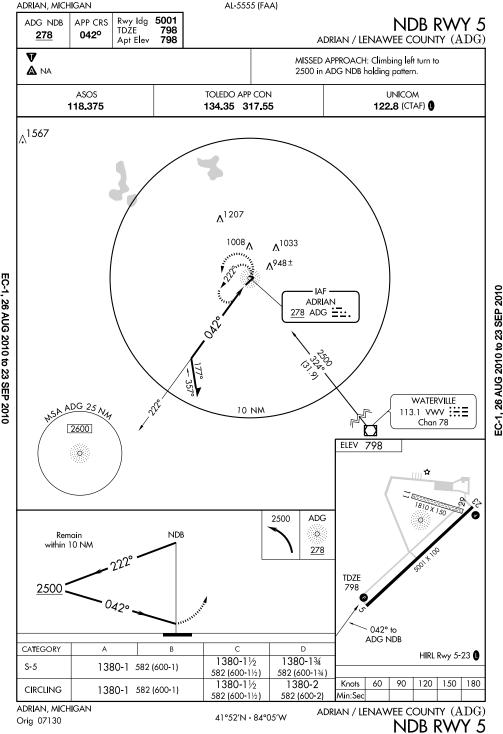
R CHICAGO CENTER APP/DEP CON 128.5 (0500-1030Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. PULLMAN (H) VOR/DME 112.1 PMM Chan 58 N42°27.96' W86°06.29' 073° 13.1 NM to fld. 640/0E.

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at fld. NOTAM FILE ADG. Unmonitored.

CHICAGO L-281 IAP Rwy 15-33: 1598 X 150 €3 €3 €3 €3 (3 ß

ALMA N43°19.40′ W84°47.18′ NOTAM FILE AMN. NDB (MHW) 329 AMN 096° 4.3 NM to Gratiot Community. DETROIT L-28J



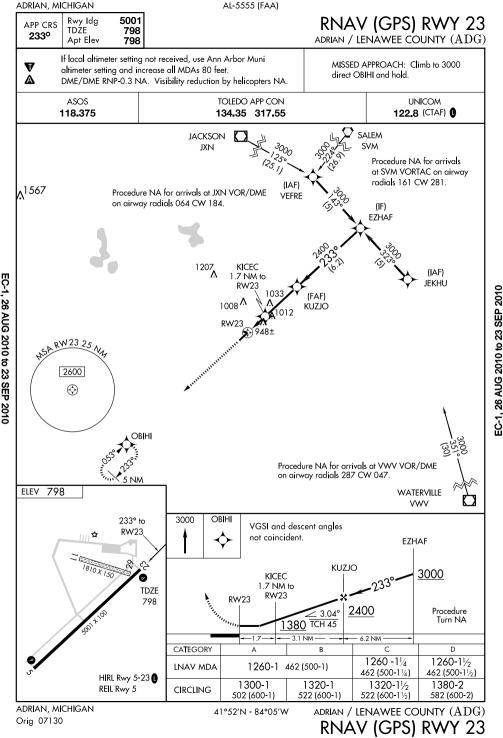
Amdt 1 08157

EC-1, 26 AUG 2010 to 23 SEP 2010

41°52′N - 84°05′W

ADRIAN / LENAWEE COUNTY  $(\mathrm{ADG})$ RNAV (GPS) RWY 5

EC-1, 26 AUG 2010 to 23 SEP 2010



127

DETROIT

DETROIT

COPTER

H-10G, L-28J

1-281

ABRAMS MUNI (See GRAND LEDGE)

at Lenawee Co. Unmonitored. ADRIAN

3 SW UTC-5(-4DT) N41°52.06′ W84°04.64′

MICHIGAN

NOTAM FILE ADG.

S4 FUEL 100LL, JET A NOTAM FILE ADG RWY 05-23: H5001X100 (ASPH) S-20 HIRL RWY 05: REIL. PAPI(P4L)-GA 3.0° TCH 32', P-line.

ADRIAN N41°52.20′ W84°04.65′

NDR (MHW) 278 ADG

LENAWEE CO (ADG)

purchase.

W84°27.51′

ALBERT J LINDBERG

ADRIAN NDB (MHW) 278

RWY 23: PAPI(P4L)-GA 3.0° TCH 32'. Trees. RWY 11-29: 1810X150 (TURF) RWY 29. Trees

RWY 11. Trees AIRPORT REMARKS: Attended 1300Z‡-dusk. Arpt unattended major

holidays except by prior arrangement; call arpt manager 517-265-2827, arpt manager ngts 517-442-8934. 24 hr self

serve fuel (100LL only) with credit card. Rwy 11-29 CLOSED Dec-Apr and when snow covered. Snow removal Rwy 05-23 only.

Taxi on hard surfaces only during spring thaw and wet conditions. Rwy 11-29 marked with 3' yellow cones. HIRL Rwy 05-23 preset low ints: to increase ints and ACTIVATE PAPI Rwv 05 and Rwy 23-CTAF, Ldg fee for commercial acft waived with fuel

WEATHER DATA SOURCES: ASOS 118.375 (517) 265-9089.

(See HESSEL)

15-33 surface rough, Rwy 15 marked with 3' vellow cones.

149° 29 NM to fld. 995/5W.

ADG N41°52.20′ W84°04.65′

R TOLEDO APP/DEP CON 134.35 RADIO AIDS TO NAVIGATION: NOTAM FILE IXN JACKSON (L) VORW/DME 109.6 JXN Chan 33 N42°15.55'

COMMUNICATIONS: CTAF/UNICOM 122.8

AERONUT PARK BALLOONPORT (See HOWELL)

**ALLEGAN** 

PADGHAM FLD (35D) 1 E UTC-5(-4DT) N42°31.83′ W85°49.42′

В S4 FUEL 100LL

NOTAM FILE LAN

RWY 11-29: H4300X75 (ASPH) S-18 MIRI RWY 11: REIL, PAPI(P4L)—GA 3.0° TCH 40', Trees.

RWY 29: REIL. PAPI(P4L)-GA 3.0°. TCH 40'. Trees. RWY 15-33: 1598X150 (TURF) RWY 15: Trees. RWY 33: Trees. AIRPORT REMARKS: Attended 1300Z‡-dusk. Parachute Jumping. Rwy

ACTIVATE MIRL Rwy 11-29, PAPI Rwy 11 and Rwy 29, REIL Rwy 29-CTAF. Rwy 11-29 parallel twy marked with reflectors. COMMUNICATIONS: CTAF/UNICOM 122.8 PULLMAN RCO 122.1R 112.1T (LANSING RADIO) (R) GRAND RAPIDS APP/DEP CON 128.4 (1030-0500Z±)

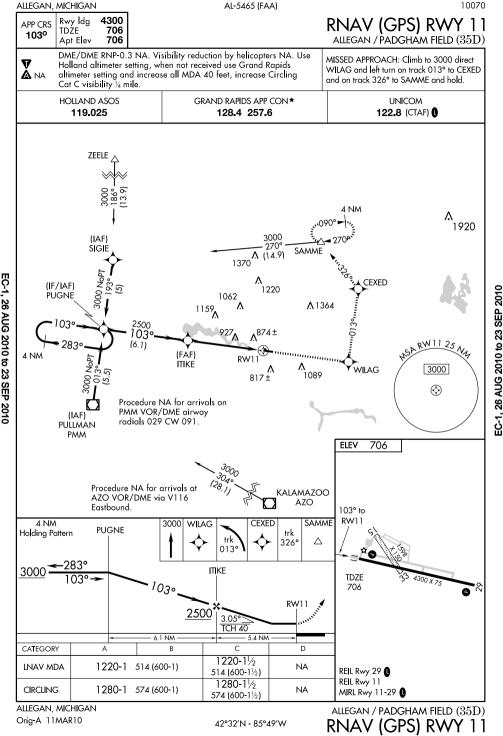
R CHICAGO CENTER APP/DEP CON 128.5 (0500-1030Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. PULLMAN (H) VOR/DME 112.1 PMM Chan 58 N42°27.96' W86°06.29' 073° 13.1 NM to fld. 640/0E.

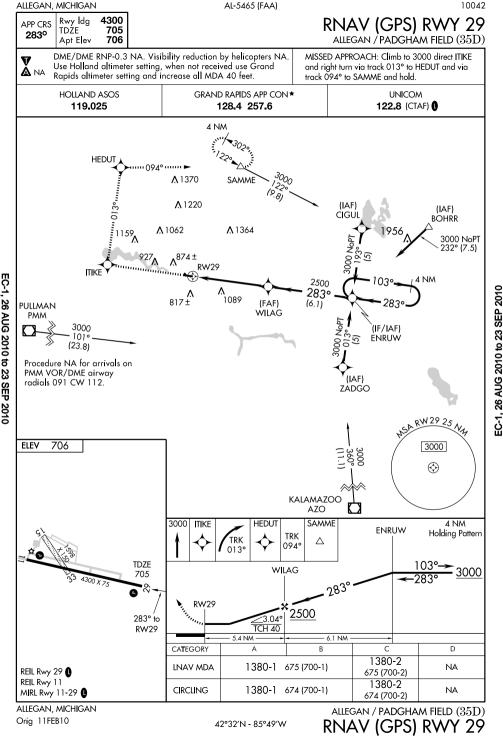
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at fld. NOTAM FILE ADG. Unmonitored.

CHICAGO L-281 IAP Rwy 15-33: 1598 X 150 €3 €3 €3 €3 (3 ß

ALMA N43°19.40′ W84°47.18′ NOTAM FILE AMN. NDB (MHW) 329 AMN 096° 4.3 NM to Gratiot Community. DETROIT L-28J





EC-1, 26 AUG 2010 to 23 SEP 2010

EC-1, 26 AUG 2010 to 23 SEP 2010

128 MICHIGAN

## ALMA

GRATIOT COMMUNITY 3 SW UTC-5(-4DT) N43°19.33′ W84°41.28′ (AMN) FUEL 100LL, JET A OX 3 NOTAM FILE AMN S4 RWY 09-27: H4999X75 (ASPH) S-40, D-65, 2S-82 RWY 09: REIL, VASI(V2L)-GA 3.0° TCH 45'.

RWY 27: REIL. VASI(V2L)-GA 3.0° TCH 53'. S-26

Chan 76 N43°31.90'

6 W UTC-5(-4DT) N45°04.69' W83°33.62'

096° 4.3

RWY 18-36: H3197X75 (ASPH) RWY 18: Trees. RWY 36: Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2130Z±. Powered

parachute activity on and invof arpt. Animals on and invof arpt.

ACTIVATE MIRL Rwys 09-27 and 18-36; VASI Rwys 09 and 27; REIL Rwys 09 and 27-CTAF.

WEATHER DATA SOURCES: AWOS-3 124.175 (989) 463-3433 COMMUNICATIONS: CTAF/UNICOM 122.8

R SAGINAW APP/DEP CON 126.45 (1100-0400Z‡) CLNC DEL 119.25 CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE MBS. SAGINAW (L) VORW/DME 112.9 MBS 248° 29.5 NM to fld. 663/3W. HIWAS. W84°04.64'

ALMA NDB (MWH) 329 AMN N43°19.40′ W84°47.18′ NM to fld. NOTAM FILE AMN.

ALMENA (See PAW PAW)

## ALPENA

#### ALPENA CO RGNL (APN)

S2 FUEL 100LL, JET A LRA Class I, ARFF Index A RWY 01-19: H9001X150 (CONC-GRVD) S-95, D-115, 2S-170, 2T-560, 2D/2D2-468

RWY 01: MALSR. PAPI(P4L)-GA 3.0° TCH 52'. Tree. RWY 19: REIL, PAPI(P4L)-GA 3.0° TCH 36', Tree. RWY 07-25: H5028X100 (CONC-GRVD) S-93, D-111, 2S-170,

2T-553, 2D/2D2-438 MIRL

RWY 07: REIL. PAPI(P4L)-GA 3.0° TCH 40'. Trees. RWY 25: REIL. PAPI(P4L)-GA 3.0° TCH 40'. Trees.

RUNWAY DECLARED DISTANCE INFORMATION

RWY N1-TORA-9001 TODA-9001 ASDA-9001 LDA-9001

RWY 07: TORA-5031 TODA-5031 ASDA-5031 LDA-5031 RWY 19-TORA-9001 TODA-9001 ASDA-9001 LDA-9001

RWY 25: TORA-5031 TODA-5031 ASDA-5031 LDA-5031 ARRESTING GEAR/SYSTEM RWY 01 BAK 14 BAK-12A(B) (1500') BAK 14 BAK-12A(B) (1500') RWY 19

AIRPORT REMARKS: Attended 1200-0000Z‡. For svc after hrs call 989-920-7988. Birds and other wildlife on and invof arpt. Twy H, east of Rwy 01-19 clsd to military acft. Twy B not visible from twr.

Twy A west of Twy C and Twy B rstd to military only. Be alert for uncontrolled vehicles on the twy. Twy to maintenance hangars unlit. 48 hrs PPR for air carrier ops with more than 30 passenger seats—call arpt manager 989-354-2907. ACTIVATE HIRL Rwy 01-19; MIRL Rwy 07-25; REIL Rwy 19, Rwy 07 and Rwy 25; and MALSR Rwy 01-CTAF.

ANG-72 hr PPR; ctc Base OPS DSN 741-3226, C989-354-6226 for PPR number. ANG duty hrs Mon-Fri 1300-2130Z‡ except holidays. WEATHER DATA SOURCES: ASOS 120.675 (989) 356-3662.

HIWAS 108.8 APN.

RCO 122.1R 108.8T (LANSING RADIO) (R) MINNEAPOLIS CENTER APP/DEP CON 125.475 (2100-1300Z±)

COMMUNICATIONS: CTAF 121.35

R APP/DEP CON 128.425 (1300-2100Z‡).

TOWER 121.35 (Weekdays 1300-2100Z‡ except holidays.)

AIRSPACE: CLASS D svc Weekdays 1300-2100Z except holidays other times CLASS E. RADIO AIDS TO NAVIGATION: NOTAM FILE APN. (L) VORTAC 108.8 APN Chan 25 N45°04.97' W83°33.42' at fld. 677/7W. HIWAS.

IIS 109.7 I-APN Rwv 01 Class IF LOM FELPS NDB II S unmonitored when two closed

DME portion unusable 260°-280°, byd 30 NM blo 4000'. FELPS NDB (LOM) 206 AP N44°57.65′ W83°33.61′ 007° 7 NM to fld.

**UNICOM** 122.95

DETROIT

L-28J

IAP

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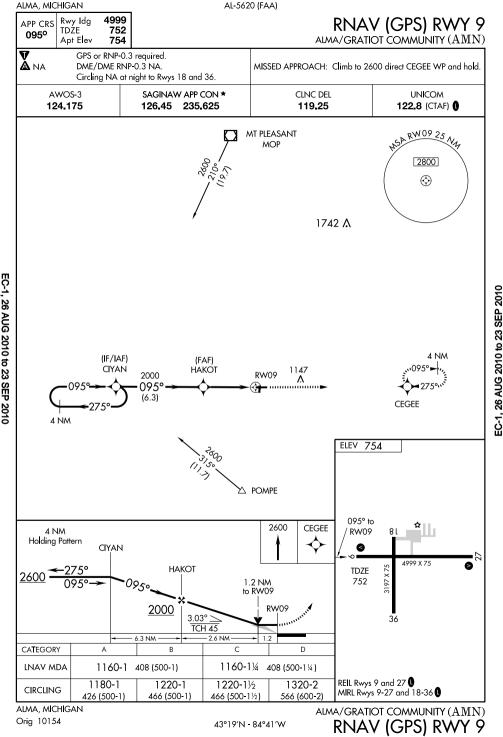
NOTAM FILE APN

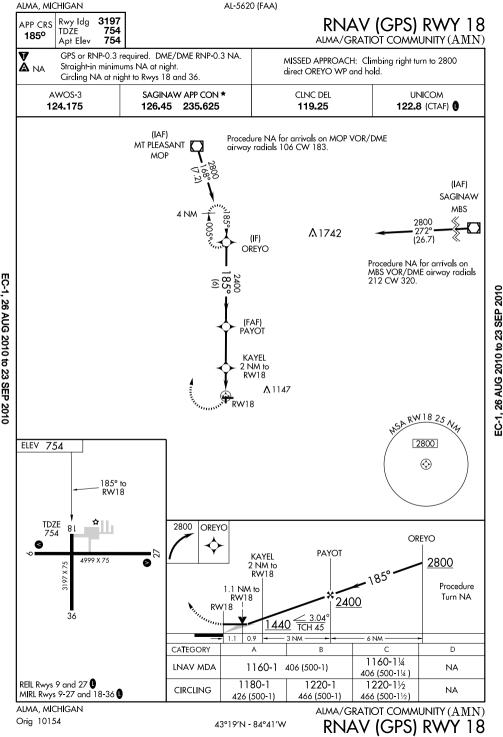
**GND CON 121.9** 

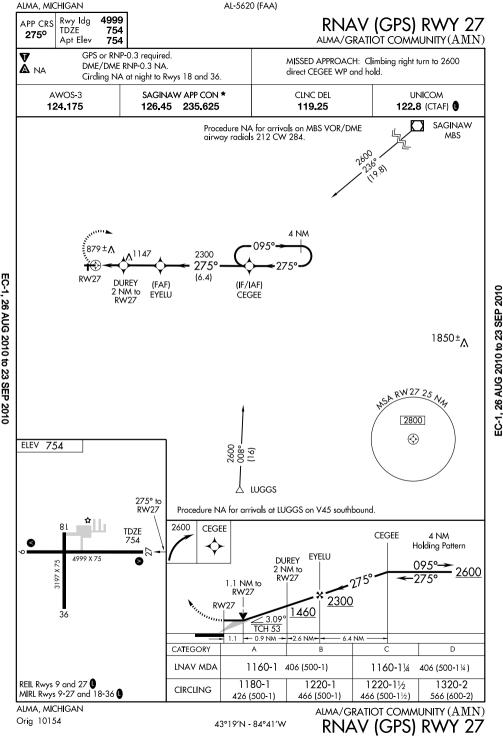
LAKE HURON H-11A, L-31C IAP

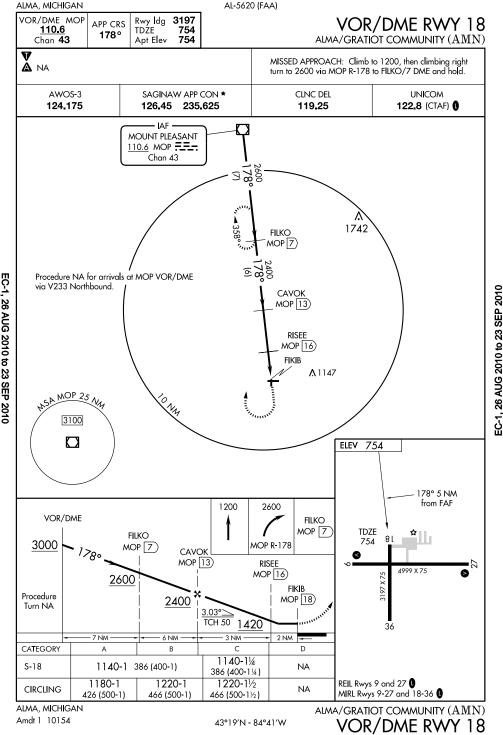
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HIRL









128 MICHIGAN

(AMN)

# ALMA

RWY 09-27: H4999X75 (ASPH) S-40, D-65, 2S-82 RWY 09: REIL, VASI(V2L)-GA 3.0° TCH 45'.

3 SW UTC-5(-4DT) N43°19.33′ W84°41.28′

NOTAM FILE AMN

Chan 76 N43°31.90'

6 W UTC-5(-4DT) N45°04.69' W83°33.62'

FUEL 100LL, JET A LRA Class I, ARFF Index A

096° 4.3

NOTAM FILE APN

**GND CON 121.9** 

RWY 27: REIL. VASI(V2L)-GA 3.0° TCH 53'. RWY 18-36: H3197X75 (ASPH) S-26 RWY 18: Trees. RWY 36: Trees.

FUEL 100LL, JET A OX 3

AIRPORT REMARKS: Attended Mon-Fri 1300-2130Z±. Powered

parachute activity on and invof arpt. Animals on and invof arpt. REIL Rwys 09 and 27-CTAF.

ACTIVATE MIRL Rwys 09-27 and 18-36; VASI Rwys 09 and 27; WEATHER DATA SOURCES: AWOS-3 124.175 (989) 463-3433

COMMUNICATIONS: CTAF/UNICOM 122.8 R SAGINAW APP/DEP CON 126.45 (1100-0400Z‡) CLNC DEL 119.25 CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE MBS. SAGINAW (L) VORW/DME 112.9 MBS 248° 29.5 NM to fld. 663/3W. HIWAS. W84°04.64' ALMA NDB (MWH) 329 AMN N43°19.40′ W84°47.18′

(See PAW PAW)

S2

NM to fld. NOTAM FILE AMN.

### ALPENA ALPENA CO RGNL

RWY 25:

ALMENA

GRATIOT COMMUNITY

S4

RWY 01-19: H9001X150 (CONC-GRVD) S-95, D-115, 2S-170, 2T-560, 2D/2D2-468 RWY 01: MALSR. PAPI(P4L)-GA 3.0° TCH 52'. Tree.

(APN)

RWY 19: REIL, PAPI(P4L)-GA 3.0° TCH 36', Tree. RWY 07-25: H5028X100 (CONC-GRVD) S-93, D-111, 2S-170, 2T-553, 2D/2D2-438 MIRL

RWY 07: REIL. PAPI(P4L)-GA 3.0° TCH 40'. Trees.

RWY 25: REIL. PAPI(P4L)-GA 3.0° TCH 40'. Trees.

RUNWAY DECLARED DISTANCE INFORMATION RWY N1-

TORA-9001 TODA-9001 ASDA-9001 LDA-9001 RWY 07: TORA-5031 TODA-5031 ASDA-5031 LDA-5031 RWY 19-TORA-9001 TODA-9001 ASDA-9001 LDA-9001

ARRESTING GEAR/SYSTEM RWY 01 BAK 14 BAK-12A(B) (1500') BAK 14 BAK-12A(B) (1500') RWY 19 AIRPORT REMARKS: Attended 1200-0000Z‡. For svc after hrs call

TORA-5031 TODA-5031 ASDA-5031 LDA-5031

989-920-7988. Birds and other wildlife on and invof arpt. Twy H, east of Rwy 01-19 clsd to military acft. Twy B not visible from twr. Twy A west of Twy C and Twy B rstd to military only. Be alert for

uncontrolled vehicles on the twy. Twy to maintenance hangars unlit. 48 hrs PPR for air carrier ops with more than 30 passenger seats—call arpt manager 989-354-2907. ACTIVATE HIRL Rwy 01-19; MIRL Rwy 07-25; REIL Rwy 19, Rwy 07 and Rwy 25; and MALSR Rwy 01-CTAF. ANG-72 hr PPR; ctc Base OPS DSN 741-3226, C989-354-6226 for PPR number. ANG duty hrs Mon-Fri

1300-2130Z‡ except holidays. WEATHER DATA SOURCES: ASOS 120.675 (989) 356-3662.

HIWAS 108.8 APN. COMMUNICATIONS: CTAF 121.35 **UNICOM** 122.95 RCO 122.1R 108.8T (LANSING RADIO)

(R) MINNEAPOLIS CENTER APP/DEP CON 125.475 (2100-1300Z±)

R APP/DEP CON 128.425 (1300-2100Z‡).

TOWER 121.35 (Weekdays 1300-2100Z‡ except holidays.)

AIRSPACE: CLASS D svc Weekdays 1300-2100Z except holidays other times CLASS E. RADIO AIDS TO NAVIGATION: NOTAM FILE APN. (L) VORTAC 108.8 APN Chan 25 N45°04.97' W83°33.42' at fld. 677/7W. HIWAS.

DME portion unusable 260°-280°, byd 30 NM blo 4000'.

FELPS NDB (LOM) 206 AP N44°57.65′ W83°33.61′ 007° 7 NM to fld. IIS 109.7 I-APN Rwv 01 Class IF LOM FELPS NDB II S unmonitored when two closed

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LAKE HURON

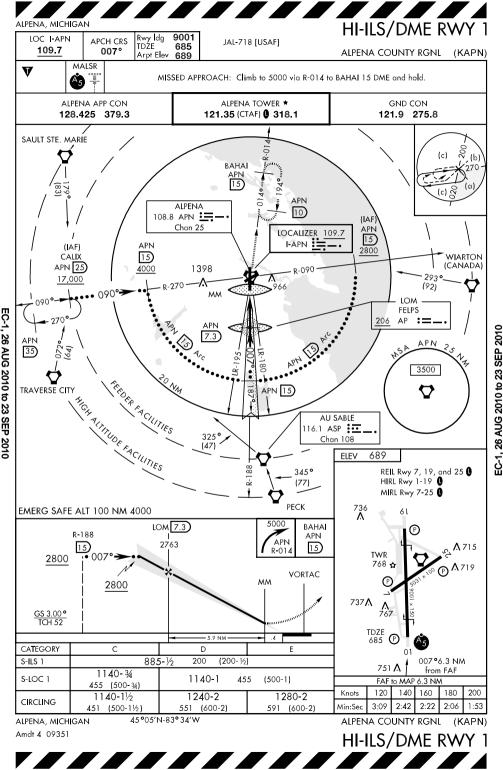
DETROIT

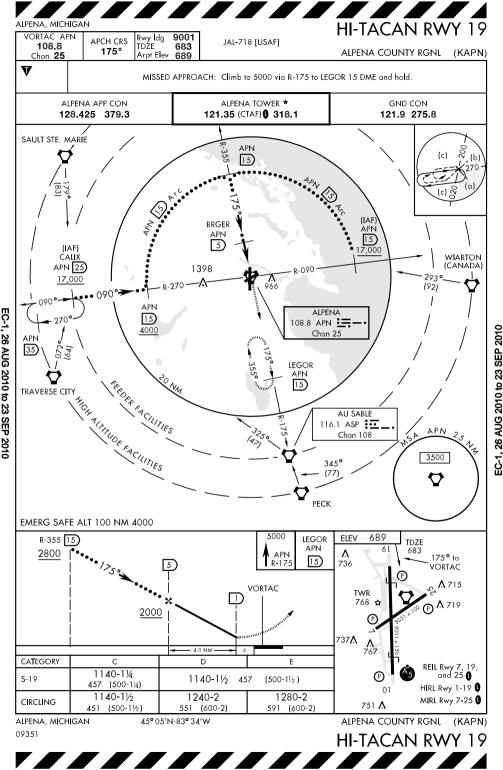
L-28J

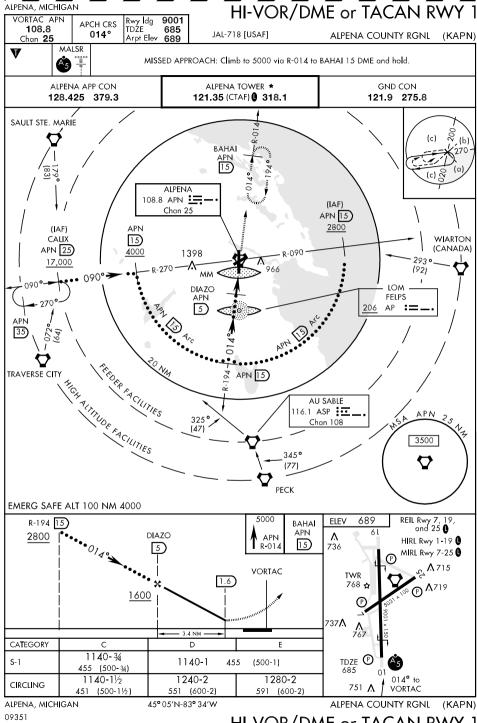
H-11A, L-31C IAP

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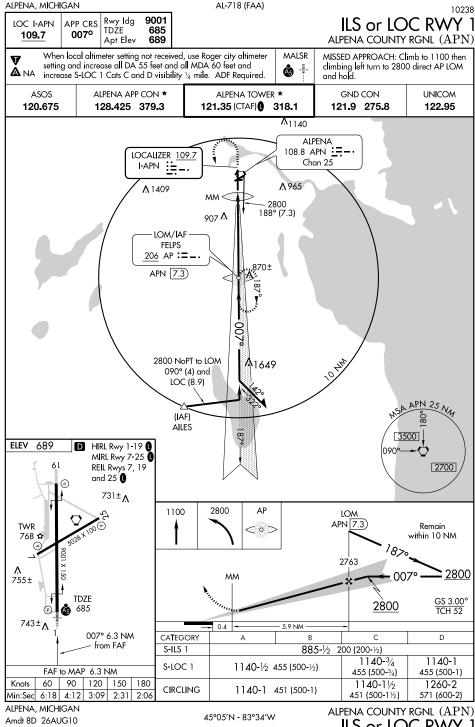




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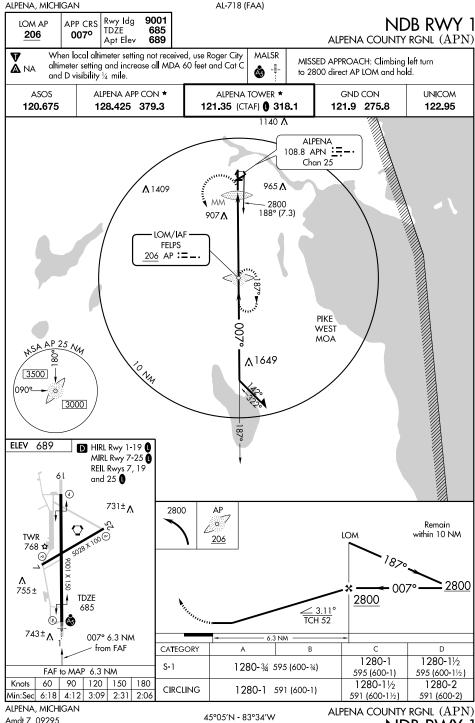
. 26 AUG 2010 to 23 SEP 2010

HI-VOR/DME or TACAN RWY 1

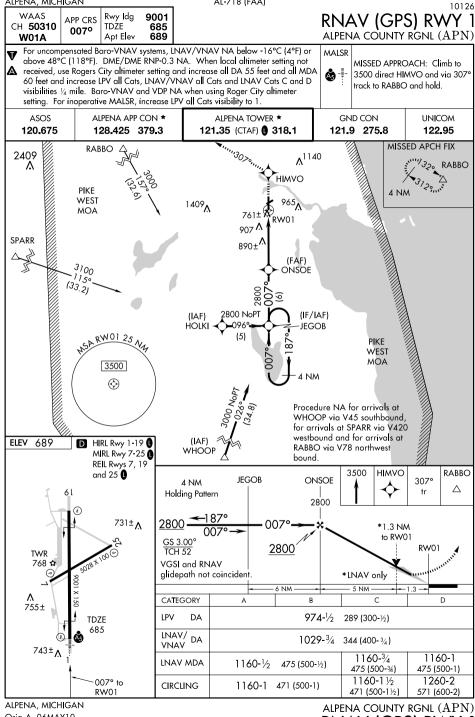


EC-1, 26 AUG 2010 to 23 SEP 2010

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EC-1, 26 AUG 2010 to 23 SEP 2010



AL-718 (FAA)

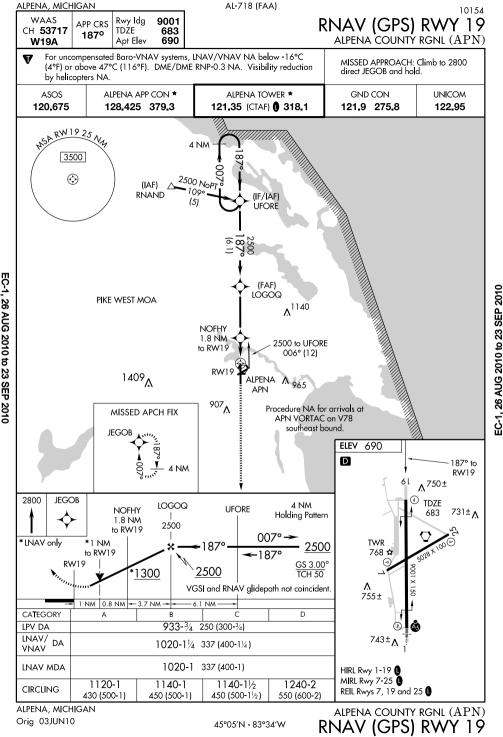
Orig-A 06MAY10

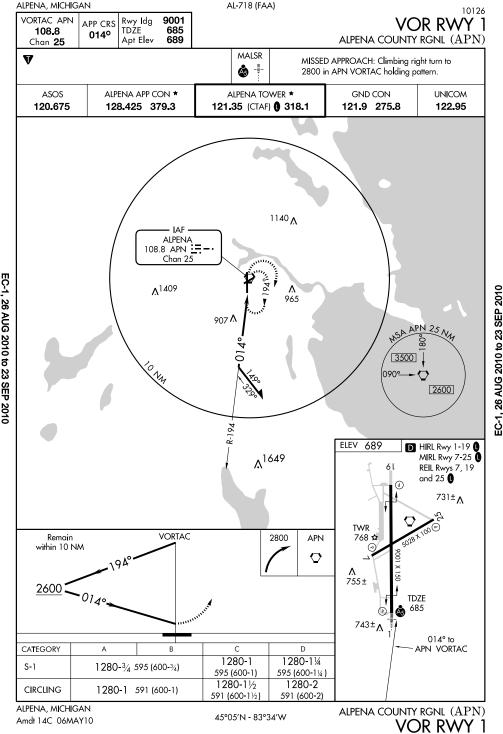
ALPENA, MICHIGAN

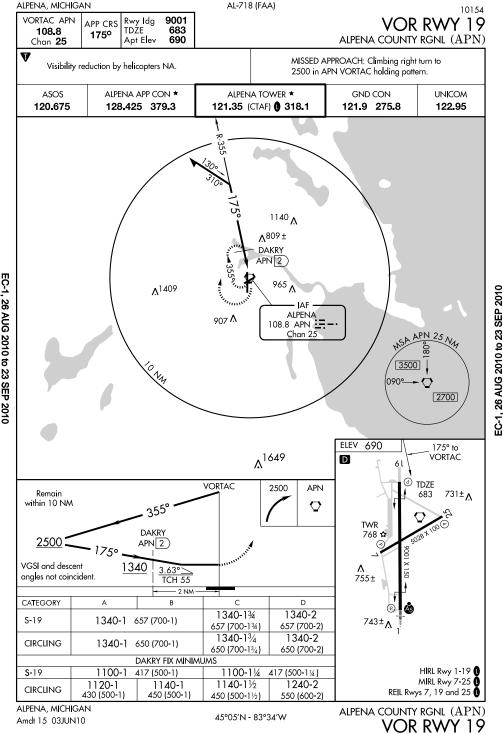
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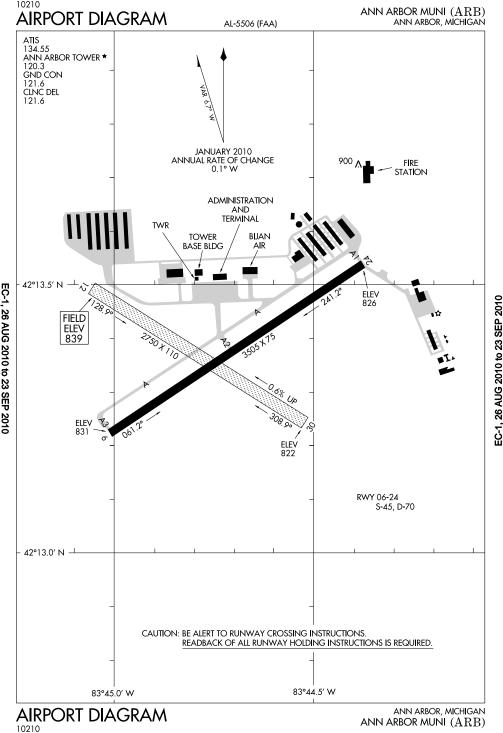
26 AUG 2010 to 23 SEP 2010

RNAV (GPS)









LAKE HURON

DETROIT

COPTER

L-28J. A IAP, AD

### MICHIGAN

RWY 26: Thid dspicd 400'. Trees.

N45°07.94′ W83°26.88′

SILVER CITY AIRPARK (53M) 4 N UTC-5(-4DT) TPA-1480 (800) NOTAM FILE LAN

RWY 08-26: 2400X100 (TURF) RWY 08: Thid dsplcd 600'. Trees.

RWY 12: Trees.

W83°35.65'

ATHELONE WILLIAMS MEML

ATLANTA MUNI (Y93)

875 FUEL 100LL

ANTRIM CO

ARCHER MEML FLD

680

AIRPORT REMARKS: Unattended. Arpt CLOSED Nov-Mar and when snow covered except for ski equipped acft. No snow removal, 300' antenna 1/5 mile N of arpt, 30' p-lines in Rwy 08 apch not marked, 35' p-line in Rwy 26 apch

marked with orange balls. Rwy 08-26 and dsplcd thlds marked with 3' yellow cones. COMMUNICATIONS: CTAF 122.9

ANDREWS UNIVERSITY AIRPARK (See BERRIEN SPRINGS)

ANN ARBOR MUNI (ARB) 3 S UTC-5(-4DT) N42°13.38' W83°44.74'

839 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 NOTAM FILE ARB

RWY 06-24: H3505X75 (CONC-GRVD) S-45. D-70

RWY 06: REIL. PAPI(P4L). Trees.

RWY 24: ODALS, VASI(V2L)-GA 3.0° TCH 20', Trees.

RWY 12-30: 2750X110 (TURF) 0.6% up NW

RWY 30: Trees. AIRPORT REMARKS: Attended Nov-Mar 1300-0100Z±. Apr-Oct

1300-2300Z‡. Terminal open 1200Z‡-dusk. Birds on and invof arpt. Runup area to Rwy 24 and first 200' of parallel twy from the

runup area of Rwy 24' not visible and uncontrolled by twr. When

twr clsd, confirm snow removal ops and winter conditions-CTAF.

No snow removal for Rwy 12-30. Rwy 12-30 marked with yellow cones. When twr clsd ACTIVATE ODALS Rwy 24-CTAF.

WEATHER DATA SOURCES: ASOS 134.55 (734) 668-7173.

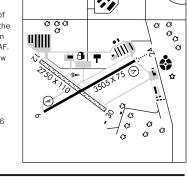
214° 13 NM to fld. 950/3W.

LAWRS. COMMUNICATIONS: CTAF 120.3 ATIS 134.55 UNICOM 123.0

(R) DETROIT APP/DEP CON 118.95 TOWER 120.3 (1300-0100Z±) GND CON 121.6 **CLNC DEL** 121.6

AIRSPACE: CLASS D svc 1300-0100Z‡ other times CLASS G. RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. SALEM (L) VORTAC 114.3 SVM Chan 90 N42°24.53'

(See ST JOHNS)



ARNOLD FLD (See CROSWELL)

RWY 13-31: 3223X100 (TURF) LIRL RWY 13: Thid dsplcd 758'. Trees.

RWY 05: Thid dspicd 1230'. Trees.

RWY 05-23: H3000X60 (ASPH)

(See BELLAIRE)

(See DAVISON)

LIRL

NOTAM FILE LAN

1 SE UTC-5(-4DT) N45°00.00′ W84°08.00′

LAKE HIIRON

LAKE HURON

H-11A, L-31C

L-31C

RWY 31: Thid dspicd 569'. Trees. RWY 23: PAPI(P2L)—GA 4.0° TCH 22'. Thid dspicd 370'. Trees.

AIRPORT REMARKS: Attended on reg. For winter condition/snow removal Rwy 05-23 confirm prior to use; call

989-785-4724; no snow removal Rwy 13-31. Rwy 13-31 CLOSED Nov-Apr and when snow covered. Birds and deer on and invof the arpt. ACTIVATE LIRL Rwy 13-31 and Rwy 05-23 and PAPI Rwy 23-CTAF. Rwy 13-31 marked with 3' yellow cones. Rwy 13-31 LIRL ops Jun through Sep. OTS indefinitely.

266° 25 NM to fld. 677/7W. HIWAS

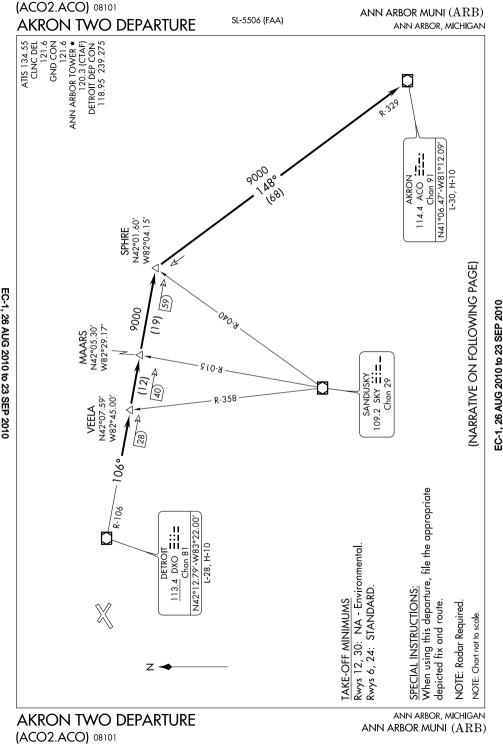
COMMUNICATIONS: CTAF 122.9 RADIO AIDS TO NAVIGATION: NOTAM FILE APN. ALPENA (L) VORTAC 108.8 APN Chan 25 N45°04.97′ W83°33.42′ AU SABLE N44°26.95′ W83°23.66′. NOTAM FILE OSC.

(H) VORW/DME 116.1 ASP Chan 108 at Oscoda-Wurtsmith, 625/7W, AWOS-3.

VOR portion unusable 300°-360° byd 35 NM blo 2800'. DME unusable 300°-020° byd 35 NM blo 3000'. AUSTN N42°07.86′ W85°31.79′. NOTAM FILE AZO.

CHICAGO

NDB (LOM) 371 AZ 354° 6.3 NM to Kalamazoo Co. Unmonitored.



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EC-1, 26 AUG 2010 to 23 SEP 2010

# DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 6/24: Climb via assigned heading for radar vectors, thence. . . .

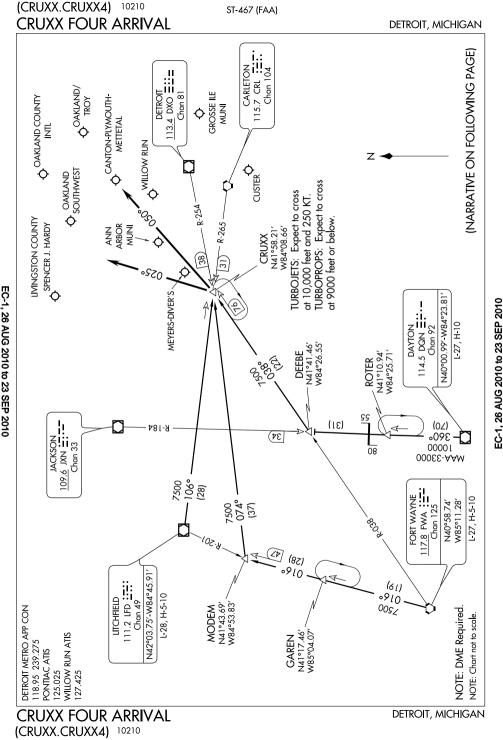
. . . .to intercept DXO VOR/DME R-106 to SPHRE INT, then via ACO R-329 to ACO VOR/DME. Maintain 3000 feet, expect clearance to filed altitude/flight level ten (10) minutes after departure.

### TAKE-OFF OBSTACLES

Rwy 6: Multiple Trees beginning 442' from DER, 47' right of centerline, up to 79' AGL/899' MSL. Building 312' from DER, 479' right of centerline, 15' AGL/838' MSL. Multiple Trees beginning 635' from DER, 182' left of centerline, up to 59' AGL/887' MSL. Building 99' from DER, 351' left of centerline, 22' AGL/849' MSL.

Rwy 24: Multiple Trees beginning 479' from DER, 473' left of centerline, up to 100' AGL/929' MSL. Multiple Trees beginning 462' from DER, 486' right of centerline, up to

50' AGL/885' MSL. Terrain 138' from DER, 475' right of centerline, 0' AGL/837' MSL.



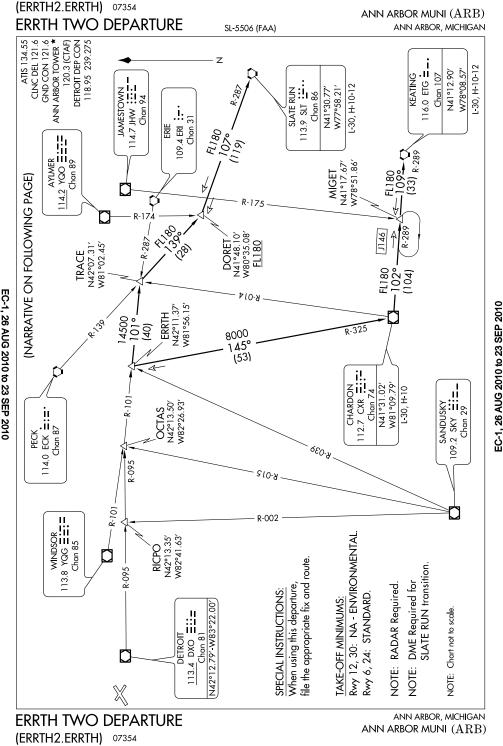
### ARRIVAL DESCRIPTION

DAYTON TRANSITION (DQN.CRUXX4): From over DQN VOR/DME via DQN R-360 and JXN R-184 to DEEBE INT and FWA R-038 to CRUXX INT. Thence . . . . FORT WAYNE TRANSITION (FWA.CRUXX4): From over FWA VORTAC via FWA R-016 to MODEM INT and DXO R-254 to CRUXX INT. Thence . . . . LITCHFIELD TRANSITION (LFD.CRUXX4): From over LFD VORTAC via LFD R-106 to CRUXX INT. Thence . . . .

.... Aircraft landing Y47, PTK, OMI7, ØZW, ONZ, 1D2, TTF, VLL: From over CRUXX INT via 025° heading.

. . . . Aircraft landing YIP or ARB: From over CRUXX INT via 050° heading.

Expect radar vector to final approach course.



**ERRTH TWO DEPARTURE** 



## DEPARTURE ROUTE DESCRIPTION

<u>TAKE-OFF RUNWAYS 6 and 24:</u> Climb via assigned heading for vectors to join the assigned SID. Maintain 3000 feet, expect clearance to filed altitude/flight level ten (10) minutes after departure.

CHARDON TRANSITION (ERRTH2.CXR): From over ERRTH INT via CXR R-325 to CXR VOR/DME.

KEATING TRANSITION (ERRTH2.ETG): From over ERRTH INT

via CXR R-325 to CXR VOR/DME, then via CXR R-102 and ETG R-289 to MIGET INT, then via ETG R-289 MIGET INT to ETG VORTAC.

SLATE RUN TRANSITION (ERRTH2.SLT): (DME Required) From over ERRTH INT via YQG R-101 to TRACE INT, then via ECK R-139 to DORET INT, then via SLT R-287 to SLT VORTAC.

# TAKE-OFF OBSTACLES:

Rwy 6: Multiple trees beginning 442' from DER, 47' right of centerline, up to 79' AGL/899' MSL. Building 312' from DER, 479' right of centerline, 15' AGL/838' MSL. Multiple trees beginning 635' from DER, 182' left of centerline, up to 59' AGL/887' MSL. Building 99' from DER, 351' left of centerline, 22' AGL/849' MSL.

Rwy 24: Multiple trees beginning 479' from DER, 473' left of centerline, up to 100' AGL/929' MSL. Multiple trees beginning 462' from DER, 486' right of centerline, up to 50' AGL/885' MSL. Terrain 138' from DER, 475' right of centerline, 0' AGL/837' MSL.

(FWA3.FWA) ANN ARBOR MUNI (ARB)FORT WAYNE THREE DEPARTURE SL-5506 (FAA) ANN ARBOR, MICHIGAN ATIS 134.55 CLNC DEL DETROIT 121.6 113.4 DXO **Ξ**∷Ξ **GND CON** 121.6 N42°12.79′-W83°22.00′ ANN ARBOR TOWER \* L-28, H-10 120.3 (CTAF) DETROIT DEP CON 118.95 239.275 SPECIAL INSTRUCTIONS: Jets only. When using this departure, file the appropriate depicted fix and route. ANNTS N41°41.01′ W83°47.44′ EC-1, 26 AUG 2010 to 23 SEP 2010 WATERVILLE ILLIE 113.1 VWV **::**:**Ξ** N41°14.91′ Chan 78 W84°07.96' 252° (51) R-071 FORT WAYNE 117.8 FWA :=-Chan 125 N40°58.74′-W85°11.28′ L-27, H-5-10 **FINDLAY** 108.2 FDY **∷** Chan 19 TAKE-OFF MINIMUMS Rwys 6, 24: STANDARD. Rwys 12, 30: NA - Environmental. NOTE: RADAR Required. (NARRATIVE ON FOLLOWING PAGE) NOTE: Chart not to scale. ANN ARBOR, MICHIGAN FORT WAYNE THREE DEPARTURE ANN ARBOR MUNI (ARB)(FWA3.FWA) 08101

EC-1, 26 AUG 2010 to 23 SEP 2010

# DEPARTURE ROUTE DESCRIPTION

SL-5506 (FAA)

TAKE-OFF RUNWAYS 6/24: Climb via assigned heading for radar vectors, thence. . . .

. . . . to intercept DXO VOR/DME R-217 to ILLIE INT, then via FWA R-071 to FWA VORTAC. Maintain 3000, expect clearance to filed flight level ten (10) minutes after departure.

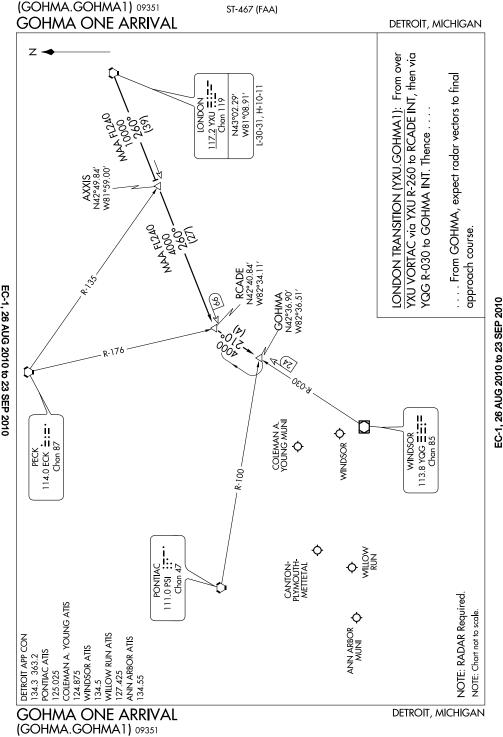
# TAKE-OFF OBSTACLES:

Rwy 6: Multiple trees beginning 442' from DER, 47' right of centerline, up to 79' AGL/899' MSL. Building 312' from DER, 479' right of centerline, 15' AGL/838 MSL. Multiple trees beginning 635' from DER, 182' left of centerline, up to 59' AGL/887' MSL.

Building 99' from DER, 351' left of centerline, 22' AGL/849' MSL. Rwy 24: Multiple trees beginning 479' from DER, 473' left of centerline, up to 100'

> AGL/929' MSL. Multiple trees beginning 462' from DER, 486' right of centerline, up to 50' AGL/885' MSL.

Terrain 138' from DER, 475' right of centerline, 0' AGL/837' MSL.



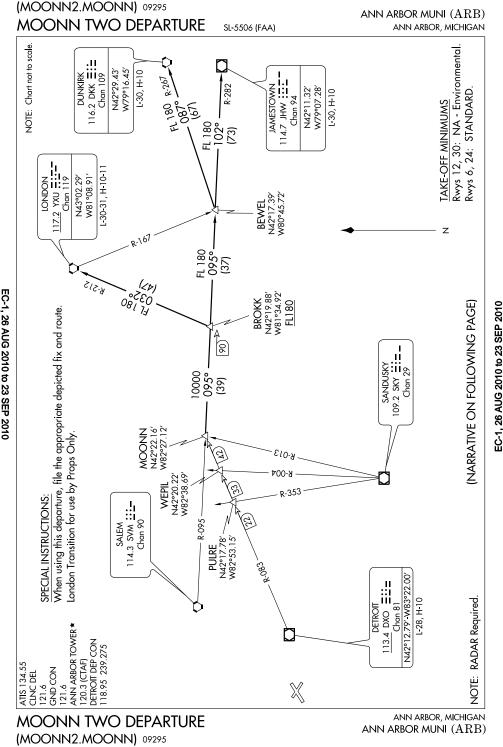
NOTE: Chart not to scale.

EC-1, 26 AUG 2010 to 23 SEP 2010

### ARRIVAL DETROIT, MICHIGAN 118.95 363.2 PONTIAC ATIS 125.025 124.875 WINDSOR ATIS 134.5 SELFRIDGE ATIS 125.325 270.1 127.425 ANN ARBOR ATIS 134.55 NOTE: RADAR REQUIRED DETROIT APP CON COLEMAN A. YOUNG ATIS WILLOW RUN ATIS JOHNSTOWN L-29, H-10-12 W78°50.05′ N40°19.00′ Chan 77 115.5 PSB :::::. Chan 102 PHILPSBURG W77°59.56′ N40°54.98′ L-30, H-10-12 MAA FL450 FL180 289 (66) 41°0°, Z 114.4 ACO ===== 112.7 CXR ==== W81°12.09′ W80°24.97′ N41°06.47" N41°11.53' AKRON Chan 91 CHARDON HAGUD L-30, H-10 19 Chan 74 117.1 AIR 🛅 R-102 Chan 118 BELLAIRE Turboprops: Expect clearance to cross at 8,000'. Furbojets: Expect clearance to cross at 10,000′ 8 EC-1, 26 AUG 2010 to 23 SEP 2010 PLANNING INFORMATION VERTICAL NAVIGATION W81°34.66′ N41°18.34′ N41°50.55′-W82°37.38′ CANCR . . . . Aircraft Landing Coleman A. Young Muni, Oakland County Intl, Windsor, Oakland/Troy, Southwest, Livingston County: From over LLEEO INT via 330° heading. Expect radar vectors to ILEEO AKRON TRANSITION (ACO.LLEEO2): From over ACO VOR/DME via ACO R-309 and DXO JOHNSTOWN TRANSITION (JST. LLEEQ2): From over JST VORTAC via JST R-313 to HAGUD 00 INT, then via DJB R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. DRYER TRANSITION (DJB.LLEEO2): From over DJB VOR/DME via DJB R-330 to LLEEO INT. 27 PHILPSBURG TRANSITION (PSB.LLEEO2): From over PSB VORTAC via PSB R-289 and DJB . . . Aircraft Landing Willow Run, Ann Arbor Muni, Canton-Plymouth-Mettetal, Oakland 9 W82°12.83' N41°38.07′ R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. Thence . . . . Selfridge ANGB: From over LLEEO INT via 360° heading. Expect radar vectors to final PEJAE R-102-10000 ARRIVAL ROUTE DESCRIPTION SELFRIDGE ANGB COLEMAN A. YOUNG MUNI WINDSOR -8-065 113.6 DJB ::: W82°09.72′ L-30, H-10 N41°21.48′ Chan 83 DRYER OAKLAND/ TROY R-130 to LLEEO INT. Thence OAKIAND COUNTY NTL 113.4 DXO =::= CANTON PLYMOUTH **♦** METTETAL WILLOW DETROIT Z N Chan 81 OAKLAND SOUTHWEST 🔷 13.1 vwv :: II final approach course. WATERVILLE ANN ARBOR 🗘 Chan 78 LIMINGSTON Thence. Thence.

ARRIVAL

approach course.



EC-1, 26 AUG 2010 to 23 SEP 2010

MOONN TWO DEPARTURE



# DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 6/24: Climb via assigned heading for radar vectors to join the assigned SID. Maintain 3000 feet, expect clearance to filed altitude/flight level ten (10) minutes after departure.

<u>DUNKIRK TRANSITION (MOONN2.DKK):</u> From over MOONN INT via SVM R-095 to BROKK INT, then via SVM R-095 and JHW R-282 to BEWEL INT, then via DKK R-267 to DKK VORTAC.

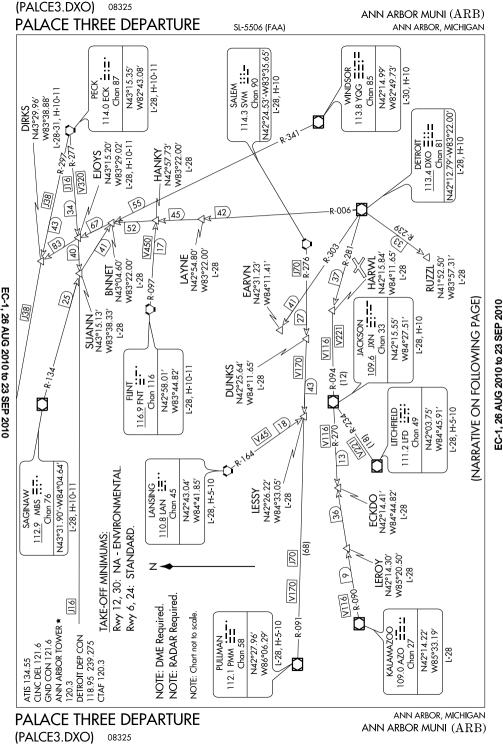
JAMESTOWN TRANSITION (MOONN2.JHW): From over MOONN INT via SVM R-095 to BROKK INT, then via SVM R-095 and JHW R-282 to BEWEL INT, then via JHW R-282 to JHW VOR/DME.

LONDON TRANSITION (MOONN2.YXU): From over MOONN INT via SVM R-095 to BROKK INT, then via YXU R-212 to YXU VORTAC.

### TAKE-OFF OBSTACLES

Rwy 6: Multiple trees beginning 442' from DER, 47' right of centerline, up to 79' AGL/899' MSL. Building 312' from DER, 479' right of centerline, 15' AGL/838' MSL. Multiple trees beginning 635' from DER, 182' left of centerline, up to 59' AGL/887' MSL. Building 99' from DER, 351' left of centerline, 22' AGL/849' MSL.

Rwy 24: Multiple trees beginning 479' from DER, 473' left of centerline, up to 100' AGL/929' MSL. Multiple trees beginning 462' from DER, 486' right of centerline, up to 50' AGL/885' MSL. Terrain 138' from DER, 475' right of centerline, 0' AGL/837' MSL.



V

EC-1, 26 AUG 2010 to 23 SEP 2010

### DEPARTURE ROUTE DESCRIPTION

SL-5506 (FAA)

TAKE-OFF RUNWAYS 6 AND 24: Climb via assigned heading for radar vectors to join the assigned SID. Maintain 3000 feet, expect clearance to filed altitude/flight level ten (10) minutes after departure.

# SPECIAL INSTRUCTIONS:

When using this departure, file the appropriate depicted departure fix and route. Aircraft landing/overflying Lansing (LAN) or overfling Flint (FNT) at 10,000 feet or below, file via EARVN. Aircraft landing Flint (FNT) at 10,000 feet or below, file via LAYNE. Aircraft landing/overflying Toledo (TOL) at 10,000 feet or below, file via RU771 Aircraft over HARWI must file FL220 and below

### TAKE-OFF OBSTACLES:

Rwy 6: Multiple trees beginning 442' from DER, 47' right of centerline, up to 79' AGL/899' MSL. Building 312' from DER, 479' right of centerline, 15' AGL/838' MSL. Multiple trees beginning 635' from DER, 182' left of centerline, up to 59' AGL/887' MSL. Building 99' from DER, 351' left of centerline, 22' AGL/849' MSL.

Rwy 24: Multiple trees beginning 479' from DER, 475' left of centerline, up to 100' AGL/929' MSL. Multiple trees beginning 462' from DER, 486' right of centerline, up to 50' AGL/885' MSL. Terrain 138' from DER, 475' right

of centerline, 0' AGL/837' MSL.

PALACE THREE DEPARTURE

(RID4.RID) 09015 ANN ARBOR MUNI (ARB)RICHMOND FOUR DEPARTURE SL-5506 (FAA) ANN ARBOR, MICHIGAN ATIS 134.55 CLNC DEL 121.6 **GND CON** 121.6 ANN ARBOR TOWER \* 120.3 (CTAF) DETROIT DEP CON 118.95 239.275 **DETROIT** 113.4 DXO **=::** Chan 81 N42°12.79′-W83°22.00′ L-28, H-10

**CAVVS** N41°41.04' **SANDUSKY** W83°34.14' 109.2 SKY **∷:**■. L-28 Chan 29 EC-1, 26 AUG 2010 to 23 SEP 2010 WATERVILLE 113.1 VWV **:**∺**Ξ** Chan 78 N41°27.09′ W83°38.32' L-28, H-10 SPECIAL INSTRUCTIONS: Jets only. When using this departure, file the appropriate depicted fix and route. TAKE-OFF MINIMUMS: Rwy 12, 30: NA - Environmental. Rwy 6, 24: STANDARD. **RICHMOND** NOTE: RADAR Required. 110.6 RID ... Chan 43 NOTE: Chart not to scale. N39°45.30′ - W84°50.33′ L-27, H-10

(NARRATIVE ON FOLLOWING PAGE)

RICHMOND FOUR DEPARTURE

 EC-1, 26 AUG 2010 to 23 SEP 2010

(RID4.RID) 09015

vectors, thence. . . .

Building 99' from DER, 351' left of centerline, 22' AGL/849' MSL.

Terrain 138' from DER, 475' right of centerline, 0' AGL/837' MSL.

Rwy 24: Multiple trees beginning 479' from DER, 473' left of centerline, up to 100' AGL/929' MSL. Multiple trees beginning 462' from DER, 486' right of centerline, up to 50' AGL/885' MSL.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 6/24: Climb via assigned heading for radar

V

EC-1, 26 AUG 2010 to 23 SEP 2010

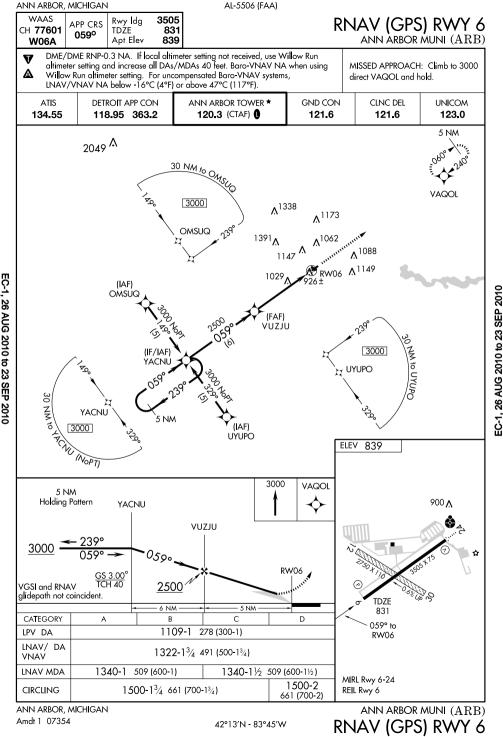
Multiple trees beginning 442' from DER, 47' right of centerline, up to 79' AGL/899' MSL. Building 312' from DER, 479' right of centerline, 15' AGL/838' MSL.

Multiple trees beginning 635' from DER, 182' left of centerline, up to 59' AGL/887' MSL.

RICHMOND FOUR DEPARTURE

08157

(RID4.RID)



ANN ARBOR, MICHIGAN Amdt 1 07354

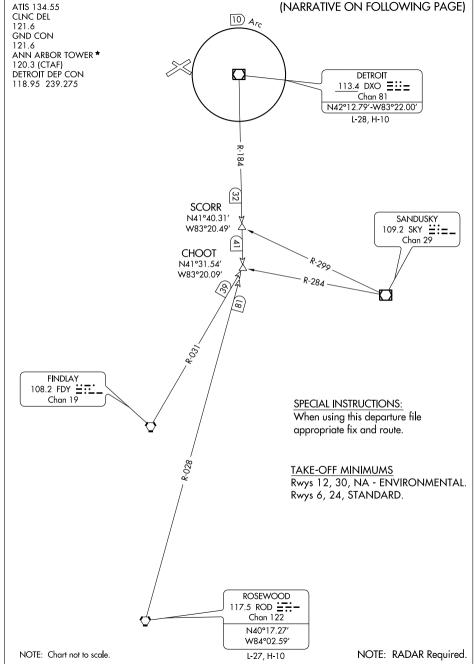
EC-1, 26 AUG 2010 to 23 SEP 2010

ANN ARBOR MUNI (ARB)

661 (700-2)

EC-1, 26 AUG 2010 to 23 SEP 2010

42°13′N - 83°45′W



# ROSEWOOD TWO DEPARTURE (ROD2.ROD) 07354



# DEPARTURE ROUTE DESCRIPTION

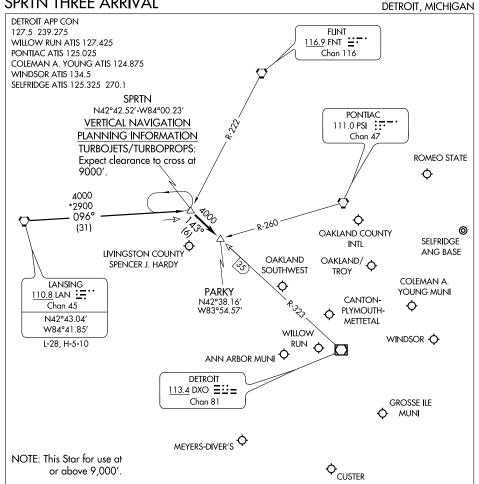
TAKE-OFF RUNWAYS 6/24: Climb via assigned heading for radar vectors to join the assigned SID. Maintain 3000 feet, expect clearance to filed altitude / flight level ten (10) minutes after departure.

### TAKE-OFF OBSTACLES

Rwy 6: Multiple trees beginning 442' from DER, 47' right of centerline, up to 79' AGL/899' MSL. Building 312' from DER, 479' right of centerline, 15' AGL/838' MSL. Multiple trees beginning 635' from DER, 182' left of centerline, up to 59' AGL/887' MSL. Building 99' from DER, 351' left of centerline, 22' AGL/849' MSL.

99' from DER, 351' left of centerline, up to 39' AGL/887' MSL. Building 99' from DER, 351' left of centerline, 22' AGL/849' MSL.

Rwy 24: Multiple trees beginning 479' from DER, 473' left of centerline, up to 100' AGL/929' MSL. Multiple trees beginning 462' from DER, 486' right of centerline, up to 50' AGL/885' MSL. Terrain 138' from DER, 475' right of centerline, 0' AGL/837' MSL.



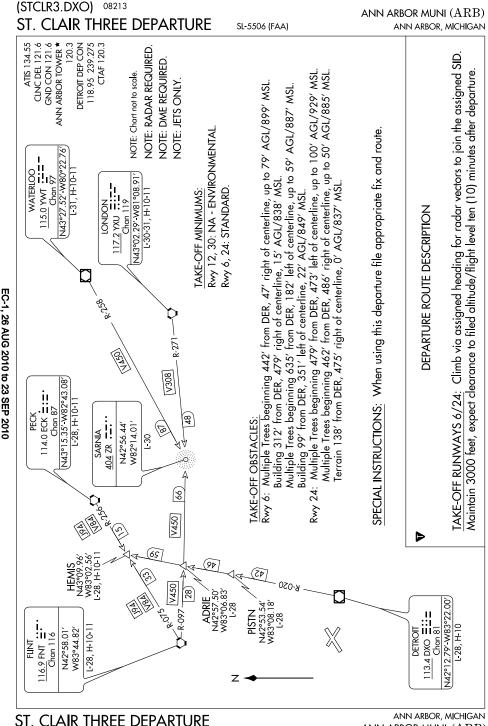
LANSING TRANSITION (LAN.SPRTN3): From over LAN VORTAC via LAN R-096 to SPRTN INT. Thence . . . .

. . . . Aircraft landing: DET, PTK, VLL, D98, MTC, ARB, YIP, ONZ, 1D2, TTF, Y47, 36MI, OZW, 3TE, YQG: From over SPRTN INT via DXO R-323

to PARKY INT. Thence . . . .

. . . . Expect radar vectors to final approach course.

NOTE: Chart not to scale.



### **CLAIR THREE** 08213

ANN ARBOR MUNI (ARB)

ANN ARBOR, MICHIGAN AL-5506 (FAA) 3505 Rwy Idg VORTAC SVM VOR RWY 6 APP CRS TDŹE 830 114.3 035° Apt Elev ANN ARBOR MUNI (ARB)839 Chan 90 V MISSED APPROACH: Climb to 3000 When control tower closed, use Detroit Willow Run altimeter setting. direct SVM VORTAC and hold. A DETROIT APP CON GND CON CLNC DEL **ATIS** ANN ARBOR TOWER \* UNICOM 120.3 (CTAF) 0 121,6 123.0 134,55 118.95 363.2 121,6 R-055 SALEM Λ<sup>2049</sup> 114.3 SVM <u>∷:</u>-Chan 90 <sup>1338</sup> ∧ <sup>1173</sup>∧ OHN EC-1, 26 AUG 2010 to 23 SEP 2010 1391**^** 1062 ∧<sup>1088</sup> 1147 ^ 1029± A 1149 1029 ^ SA SVM 25 NA (IAF) HARTZ INT 3100 SVM [18.3]  $\Diamond$ ELEV 839 900 ₺ HARTZ INT 3000 SVM Remain SVM 18.3)  $\bigcirc$ within 10 NM 215° 114.3 SVM 2600 13.3 0350. 2400 TDZE 5 NM 830 CATEGORY Α В С 1320-11/4 1320-11/2 035° 5 NM S-6 1320-1 490 (500-1) 490 (500-11/4) 490 (500-11/2) from FAF 1500-134 1500-2 **CIRCLING** 1500-1 661 (700-1) REIL Rwy 6 661 (700-1%) 661 (700-2) MIRL Rwy 6-24 WILLOW RUN ALTIMETER SETTING MINIMUMS FAF to MAP 5 NM S-6 1340-1 510 (600-1) 1340-11/2 510 (600-11/2) Knots 60 90 120 150 180 1520 - 21520-21/2 CIRCLING 1520-1 681 (700-1) 3:20 681 (700-2) 681 (700-21/4) Min:Sec 5:00 2:30 2:00 1:40 ANN ARBOR, MICHIGAN ANN ARBOR MUNI (ARB)Amdt 13A 07354

VOR RW

RW

(39G) 2 SE UTC-5(-4DT) N43°01.80′ W82°40.16′

AVOCA

NOTAM FILE LAN 726 RWY 09-27: 2105X100 (TURF) RWY 09: Thid displicat 267', Road, Rgt tfc. RWY 27: Trees. AIRPORT REMARKS: Attended irregularly, Ultralight ops at arpt. Rwy 09-27 and Rwy 09 dsplcd thid marked with yellow cones. COMMUNICATIONS: CTAF 122 9 **TACKABERRY** (07D) 2 W UTC-5(-4DT) N43°03.87′ W82°43.43′ DETROIT 764 NOTAM FILE LAN RWY 18-36: 2244X65 (TURF) RWY 18: Brush. RWY 36: Thid dspicd 1000'. Trees. AIRPORT REMARKS: Attended irregularly. Rwy 36 has 75' radio twr 200' from thId 130' left. Rwy 36 dsplcd thIds marked with 3 tires each side: Rwy 18-36 marked with tires, Rwy 18-36 NSTD LIRL: non-frangible mounting: variable spacing and NSTD lens. Lgts not for public use. COMMUNICATIONS: CTAF 122.9 BAD AXE N43°47.02′ W82°58.99′. NOTAM FILE BAX DETROIT (T) VORW/DME 108.2 BAX Chan 19 at Huron Co Mem. 766/5W. AWOS-3. L-28J. 31C RCO 122.65 (LANSING RADIO) **BAD AXF** HURON CO MEM (BAX) 1 S UTC-5(-4DT) N43°46.81′ W82°59.13′ DETROIT FUEL 100LL, JET A NOTAM FILE BAX H-11A, L-28J, 31C IAP RWY 17-35: H5009X75 (ASPH) RWY 17: REIL. PAPI(P4L), Trees. G G €3 €3 RWY 35: REIL. PAPI(P4L). Trees. **3** 

### RWY 04-22: H3495X75 (ASPH) S-16 MIRL (NSTD) RWY 04: Thid dsplcd 300', Railroad. RWY 22: Trees. AIRPORT REMARKS: Attended 1330-2130Z‡. Arpt unattended major holidays and Easter. Birds on and invof arpt. Rwy 04-22 has numerous cracks. Twv A CLOSED winter months. MIRL Rwv 04-22

and MIRL Rwy 17-35 opr dusk-0230Z‡; to increase ints and after 0230Z± ACTIVATE—CTAF, ACTIVATE PAPI and REIL Rwv 17 and Rwy 35—CTAF, Rwy 04-22 NSTD MIRL; Igts last 2000' not split amber/white lens. WEATHER DATA SOURCES: AWOS-3 108.2 BAX (989) 269-4137.

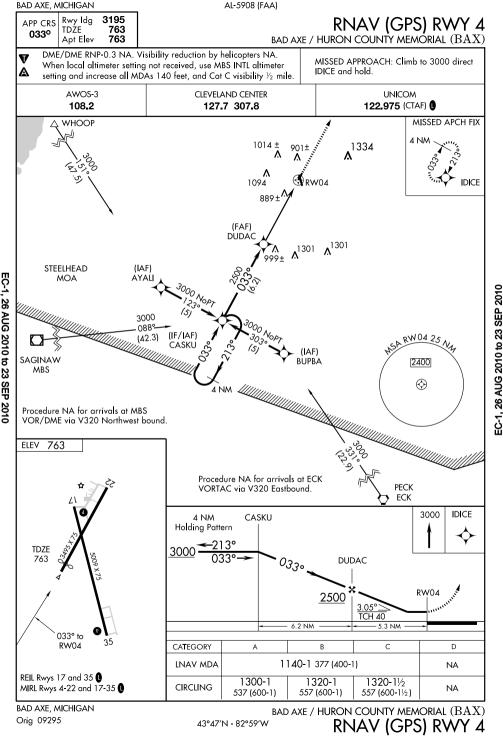
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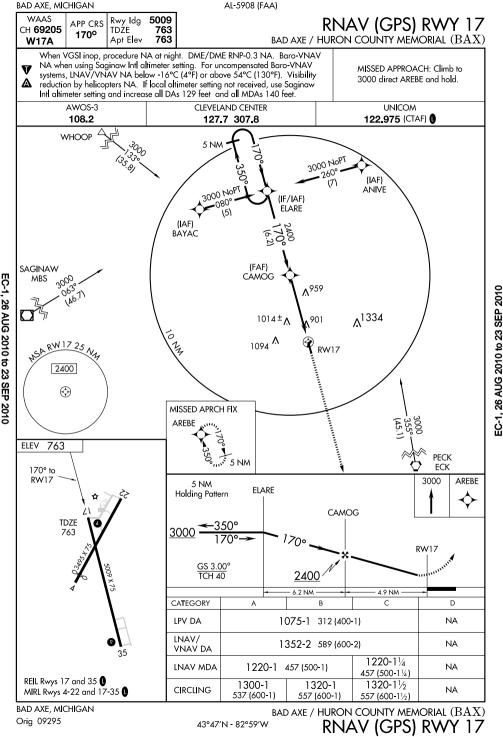
DETROIT

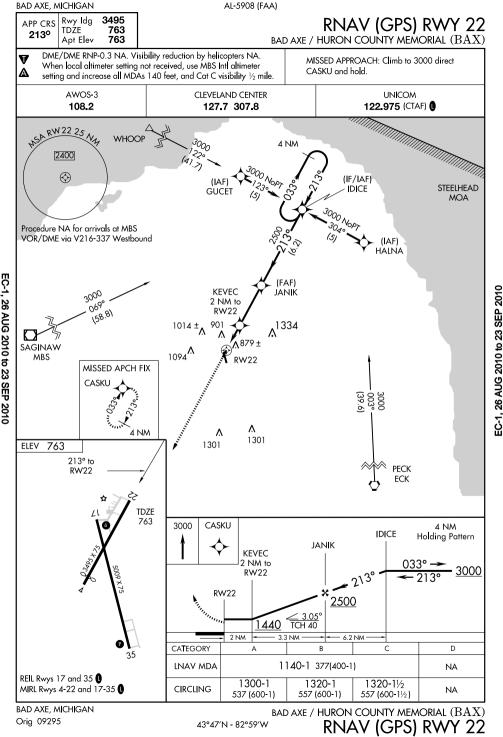
COMMUNICATIONS: CTAF/UNICOM 122.975 BAD AXE RCO 122.65 (LANSING RADIO) (R) CLEVELAND CENTER APP/DEP CON 127.7

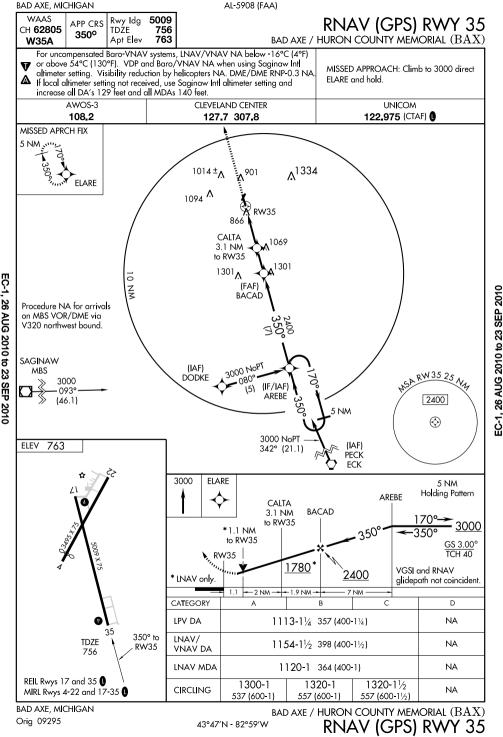
RADIO AIDS TO NAVIGATION: NOTAM FILE BAX. BAD AXE (T) VORW/DME 108.2 BAX Chan 19 N43°47.02'

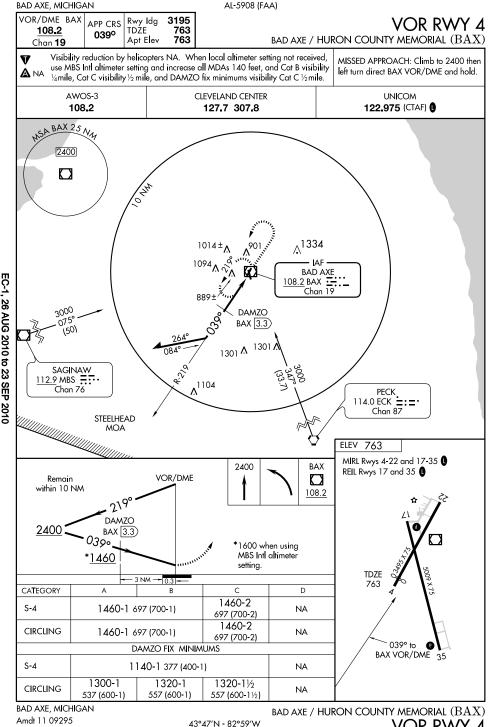
W82°58.99' at fld. 766/5W. AWOS-3.





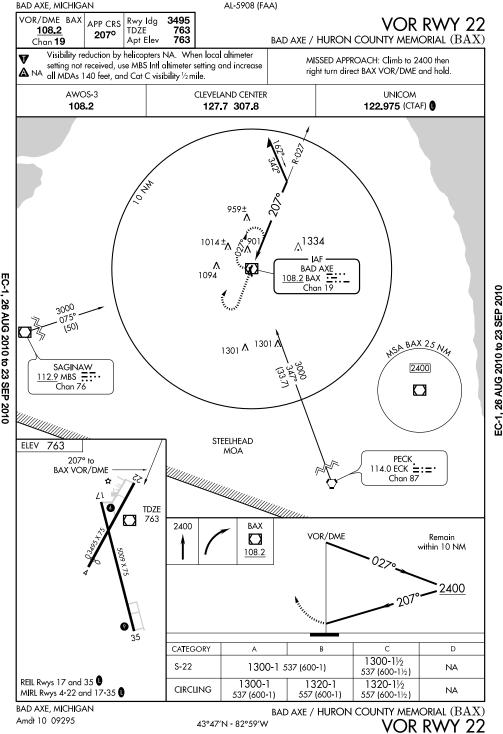


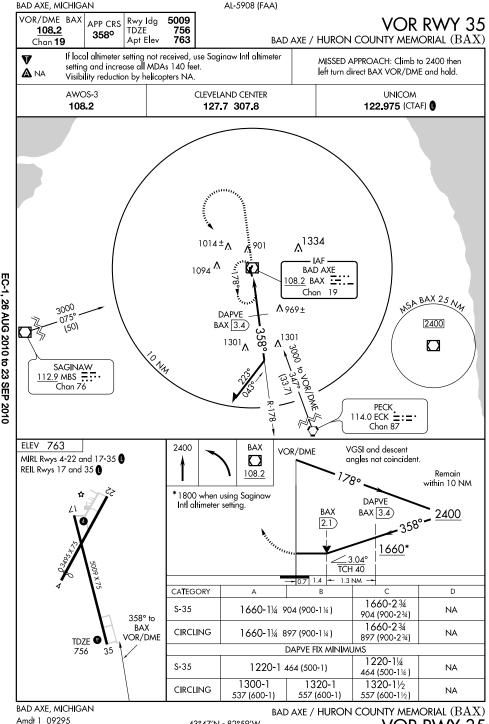




43°47′N - 82°59′W

VOR RWY 4





Amdt 1 09295

VOR RWY 35

**MICHIGAN** 131 BALDWIN MUNI (7D3) 2 S UTC-5(-4DT) N43°52.53' W85°50.53' CHICAGO 828 NOTAM FILE LAN L-281 RWY 09-27: H3800X75 (ASPH) S-10 0.3% up E IAP RWY 09: Trees RWY 27: Trees. C3 C3 RWY 05-23: 2800X100 (TURF) €3 03 03 RWY 05: Thid dsplcd 800'. Trees. C C 03 (3 RWY 23: Thid dsplcd 800'. Trees. €3 AIRPORT REMARKS: Unattended. Deer on and invof arpt. Arpt CLOSED 03 C3 03 C3 Nov thru Apr: no snow removal, Rwy 09-27 sfc considerable €3 **(3** pavement cracking with vegetation growing through cracks. Rwy C3 IT 05-23 and dsplcd thids marked with 3' yellow cones. Ø₽ COMMUNICATIONS: CTAF 122.9 3800 X 75 (R) MINNEAPOLIS CENTER APP/DEP CON 120.85 €3 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. αĪ Œ WHITE CLOUD (L) VOR/DME 117.6 HIC Chan 123 N43°34.49' €3 W85°42.97' 344° 18.9 NM to fld. 920/1W. C3 C3 (3 (3 €3 €3

BANGU N45°00.88' W84°48.48'. NOTAM FILE GLR. NDB (LOM) 375 GL 097° 4.4 NM to Gaylord Rgnl.

€3 LAKE HURON

BARAGA (2P4) 4 W UTC-5(-4DT) N46°47.10′ W88°34.67′ GREEN BAY 845 NOTAM FILE GRB RWY 09-27: 2200X100 (TURF) RWY 09: Thid dspicd 700'. Trees. RWY 27. Trees AIRPORT REMARKS: Unattended. Arpt CLOSED Nov-Apr except to ski equipped acft. 25' p-line 850' from thId Rwy 27. Deer and birds on and invof arpt. Rwv 09-27 and dsplcd thld Rwv 09 marked with 3' vellow cones. COMMUNICATIONS: CTAF 122.9

NOTAM FILE BTL.

at W K Kellogg. 922/2W.

VOR portion unusable 095°-112° byd 16 NM; 125°-170° and 235°-260° blo 4000'.

**BATH** 

UNIVERSITY AIRPARK (41G) 2 NW 856 В S2 NOTAM FILE LAN RWY 08-26: 1988X100 (TURF)

RWY 08: Bldg. RWY 26: Tree. AIRPORT REMARKS: Attended irregularly. Rwy 08-26 occasionally soft/wet areas E end during spring thaw and after heavy rain, ACTIVATE LIRL Rwy 08-26 and NSTD rotating bcn—122.85, NSTD flashing strobe and alternating

BATTLE CREEK N42°18.59' W85°15.14'

(T) VORTACW 109.4 BTL Chan 31

RCO 122 2 (LANSING RADIO)

white/red bcn. Rwv 08-26 marked with 3' vellow cones. COMMUNICATIONS: CTAF 122.9 BATOL N42°21.72′ W85°11.06′ NOTAM FILE BTI

NDB (MHW/LOM) 272 BT 226° 4.4 NM to W K Kellogg.

UTC-5(-4DT) N42°50.42′ W84°28.75′

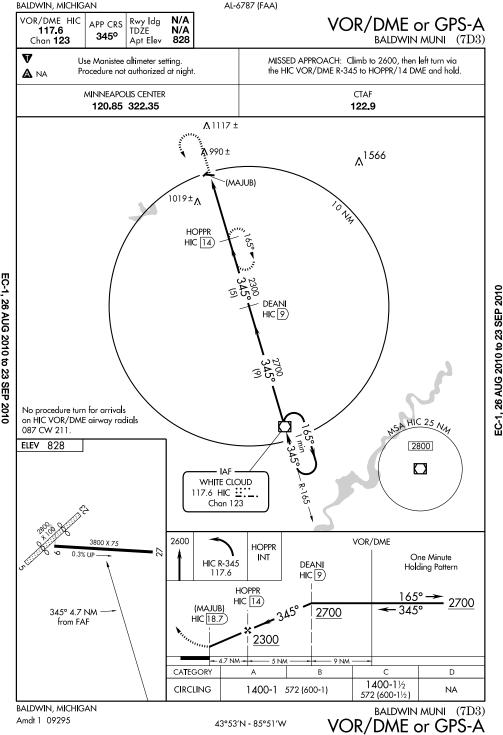
DETROIT

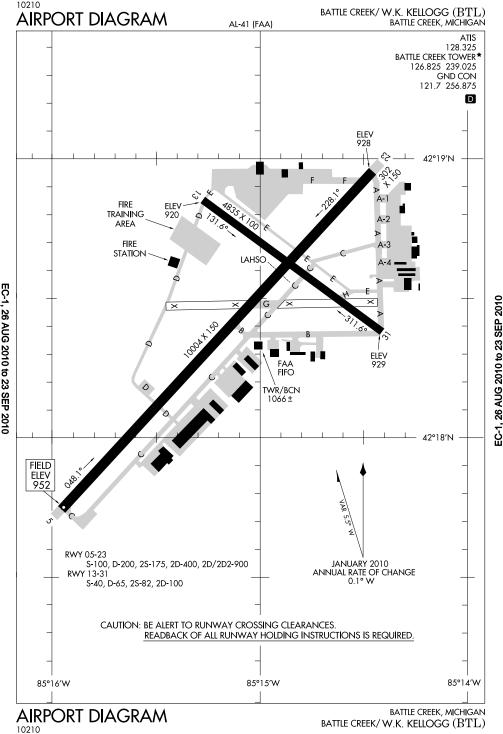
CHICAGO

CHICAGO

L-281

1-281





## **BATTLE CREEK**

W K KELLOGG (BTL) 3 W UTC-5(-4DT) N42°18.44′ W85°15.09′ FUEL 100LL JETA 0X3 LRA Class IV. ARFF Index A 952 R S4

H-5E, 10F, L-281

CHICAGO

RWY 23: MALSR, PAPI(P4L), Pole.

2D-400, 2D/2D2-900 HIRL

RWY 05: REIL, VASI(V4L)—GA 3.0° TCH 49', Tree, 0.4% down.

RWY 05-23: H10004X150 (ASPH-PFC) S-100, D-200, 2S-175.

RWY 13-31: H4835X100 (ASPH-GRVD) S-40, D-65, 2S-82. 2D-100 MIRI

RWY 13: REIL, VASI(V4L)—GA 3.0° TCH 35', Railroad. RWY 31: REIL. VASI(V4L)-GA 3.0° TCH 56'. Road.

LAND AND HOLD SHORT OPERATIONS

NOTAM FILE BTI

DAILUNG HOLD SHORT POINT DIST AVBL RWY N5 13 - 317000

RUNWAY DECLARED DISTANCE INFORMATION

RWY 13: TORA-4835 TODA-4835 ASDA-4835 I DA-4835 RWY 23: TORA-10003 TODA-10003 ASDA-10003 LDA-10003 RWY 31: TORA-4835 TODA-4835 ASDA-4835 IDA-4835

RWY 05: TORA-10003 TODA-10003 ASDA-10003 LDA-10003

AIRPORT REMARKS: Attended continuously, 48 hr PPR for unscheduled air carrier ops with more than 30 passenger seats call arpt manager 269-966-3470. Deer and birds on and invof arpt. Extensive pilot training within 25 NM of BTL VOR. When twr clsd HIRL Rwv 05-23 preset low ints. To increase

customs call 269-965-3349. WEATHER DATA SOURCES: ASOS (269) 964-0283, LAWRS.

COMMUNICATIONS: CTAF 126 825 ATIS 128 325

BATTLE CREEK RCO 122.2 (LANSING RADIO)

R)CHICAGO CENTER APP/DEP CON 127.55 (0400-1100Z‡) (R) KALAMAZOO APP/DEP CON 119.2 (1100-0400Z±) BATTLE CREEK TOWER 126.825 (1100-0300Z±) GND CON 121 7

AIRSPACE: CLASS D svc effective 1100-0300Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE BTL.

ASR (1100-04007+)

BATTLE CREEK (T) VORTACW 109.4 BTL Chan 31 N42°18.59' W85°15.14'

BATOL NDB (MHW/LOM) 272 BT N42°21.72′ W85°11.06′ 226° 4.4 NM to fld.

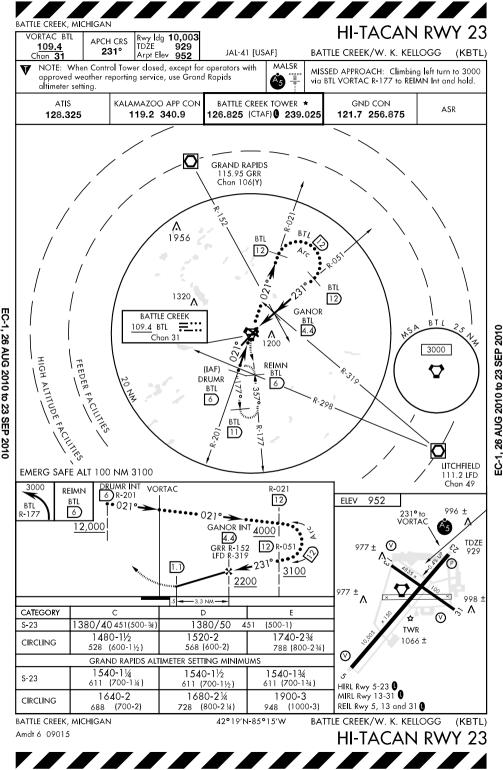
Rwv 23. Class IB. LOM BATOL NDB. Unmonitored when twr clsd. IIS 110 5 I-BTL

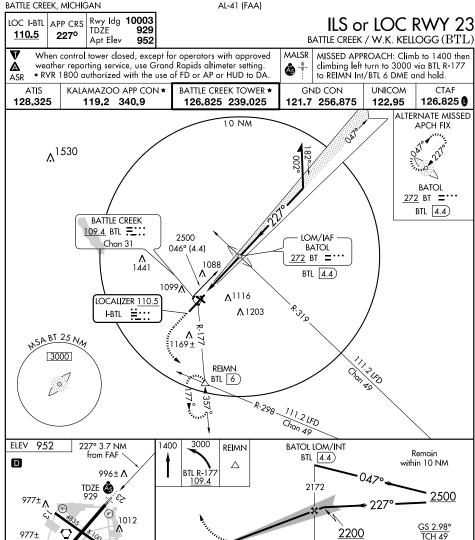
ints and ACTIVATE MALSR Rwy 23, MIRL Rwy 13-31 and REIL Rwy 05, Rwy 13 and Rwy 31-CTAF. ARFF provided 24 hrs call 269-969-3349/3317, Index C ARFF avbl on request 48 hrs PPR call 269-966-3470, For

**IINICOM** 122 95

IAP. AD 103 0 0 0 03 (3 C C B

at fld. 922/2W...





2200 977± 3.7 NM 1066± CATEGORY Α S-ILS 23 \*1129/24 200 (200-1/2) S-LOC 23 1340/24 411 (400-1/2) 1340/40 1420-1 1440-1 1480-11/2 CIRCLING 468 (500-1) 488 (500-1) 528 (600-11/2) GRAND RAPIDS ALTIMETER SETTING MINIMUMS HIRL Rwy 5-23 0 S-ILS 23 1289-3/4 360 (400-3/4) MIRL Rwy 13-31

S-LOC 23

CIRCLING

3:42 BATTLE CREEK, MICHIGAN Amdt 17C 10042

60 90 120 150 180

Knots

Min:Sec

REIL Rwys 5, 13 and 31 🗓

FAF to MAP 3.7 NM

2:28 1:51 1:29 1:14

EC-1, 26 AUG 2010 to 23 SEP 2010

BATTLE CREEK / W.K. KELLOGG (BTL) ILS or LOC **RWY 23** 

1.500 - 1

571 (600-1)

1640-2

688 (700-2)

D

411 (400-3/4)

1520-2

568 (600-2)

1500-11/4

571 (600-11/4)

1680-21/4

728 (800-21/4)

EC-1, 26 AUG 2010 to 23 SEP 2010

1500-3/4

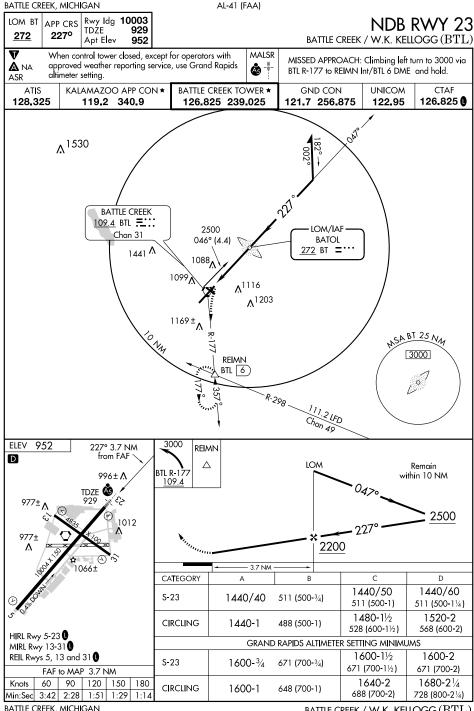
1580 - 1

628 (700-1)

571 (600-3/4)

1600-1

648 (700-1)

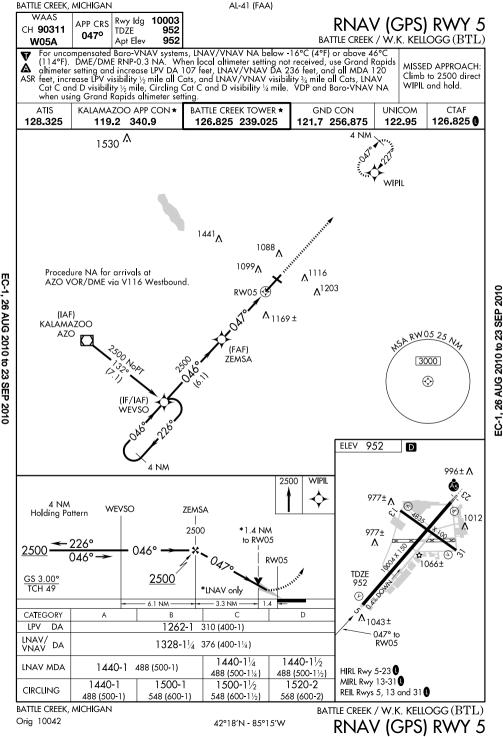


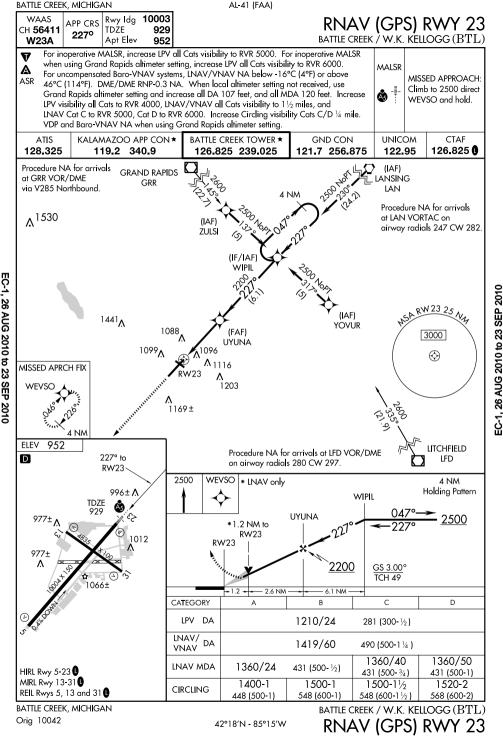
BATTLE CREEK, MICHIGAN

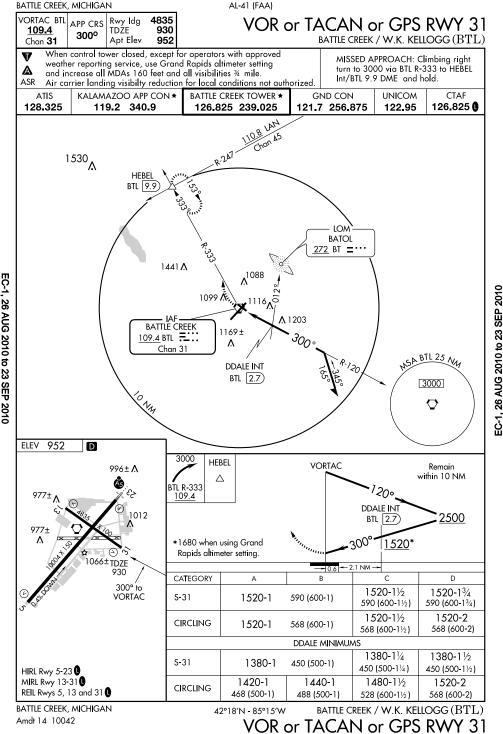
Amdt 17 10042

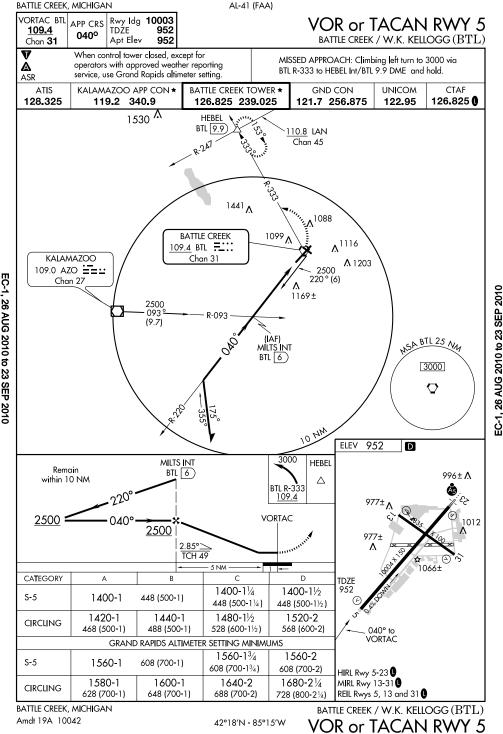
EC-1, 26 AUG 2010 to 23 SEP 2010

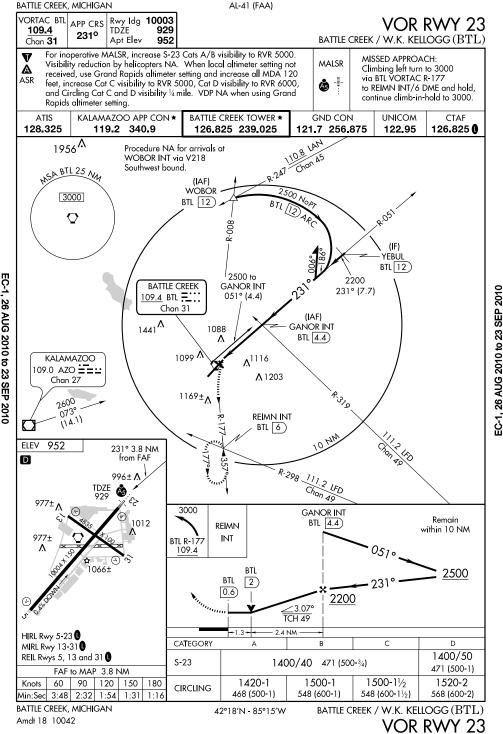
BATTLE CREEK / W.K. KELLOGG (BTL)











DETROIT

IAP

Park

**GREEN BAY** 

L-31B IAP

L-28J. 31C

## JAMES CLEMENTS MUNI (3CM) 3 S UTC-5(-4DT) RWY 18-36: H3798X75 (ASPH)

**BAY CITY** 

RWY 18: PAPI(P4L)-GA 4.0° TCH 27'. Trees.

RWY 36: PAPI(P4L)-GA 4.0° TCH 27'. Trees. RWY 05-23: H2600X75 (ASPH) MIRL RWY 05: Thid dspicd 226' Trees. RWY 23: PAPI(P2L)—GA 4.0° TCH 27'. Thid dspicd 159'. Road.

FUEL 100LL

AIRPORT REMARKS: Attended 1300Z‡-dusk. Occasional seaplane and agriculture ops; aerobatic maneuvers and skydiving activity at

LRA

MIRL

arpt. Ultralight activity on and invof arpt. Numerous sea gulls and

deer on and invof arpt. Rwy 05 and Rwy 36, occasional +100' high

SAGINAW (L) VORW/DME 112.9 MBS

WATERWAY 09-27: 3500X500 (WATER) WATERWAY 18-36: 3500X500 (WATER) WATERWAY 13-31: 2600X400 (WATER)

ships traversing apch surfaces during navigable seasons 600-800' from thids. Ship buoys in river channel. Rwy 05-23

twys marked with reflectors. ACTIVATE MIRL Rwy 18-36 and Rwy COMMUNICATIONS: CTAF/UNICOM 122.8

05-23, PAPI Rwys 23, 18, and 36-CTAF. (R) SAGINAW APP/DEP CON 120.95 (1100-0400Z±)

NOTAM FILE LAN

CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE MBS.

Chan 76 N43°31.90' 086° 8 NM to fld. 663/3W. HIWAS.

N43°32.82′ W83°53.73′

W81

Trailer

# BFAVFR ISLAND

BEAVER ISLAND (SJX) 4 SW B FUEL 100LL NOTAM FILE SJX

W84°04.64′

UTC-5(-4DT) N45°41.54' W85°34.00'

RWY 32: Thid dspicd 600'. Trees.

RWY 27: REIL, PAPI(P4L)—GA 4.0° TCH 32', Road.

RWY 09-27: H4300X75 (ASPH) MIRL RWY 09: REIL. PAPI(P4L)—GA 3.0° TCH 24'. Trees.

SEAPLANE REMARKS: No docks or ramps. Ship buoys in river channel.

RWY 14-32: 3300X120 (TURF)

RWY 14: Thid dsplcd 533'. Trees. RWY 05-23: 2130X120 (TURF) RWY 05: Trees. RWY 23: Thid dsplcd 794'. Trees. AIRPORT REMARKS: Attended 1300-2200Z‡. Rwys 05-23 and 14-32 CLOSED Nov thru Apr and when snow covered. Deer on and invof arpt. Rwy 09-27 quarry, dirt piles, equipment 165' N of rwy, 150' W of Rwy 17-35. Rwy

17-35, equipment parked along E side of rwy, S end. Rwy 17, - 20' drop off, N end of rwy. Rwy 14-32 marked with 3' cones; Rwy 23 and Rwy 14-32 dsplcd thids marked with three 3' yellow cones each side. ACTIVATE MIRL Rwv 09-27-CTAF. WEATHER DATA SOURCES: AWOS-3 118.075 (231) 448-3081. COMMUNICATIONS: CTAF/UNICOM 122.8

(R) MINNEAPOLIS CENTER APP/DEP CON 134.6 RADIO AIDS TO NAVIGATION: NOTAM FILE PLN. PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84′ W84°39.85′ 282° 38.2 NM to fld. 840/6W.

ST JAMES NDB (MHW) 382

RWY 17-35: 3500X140 (TURF)

COMMUNICATIONS: CTAF/UNICOM 122 8

WELKE

S4

2 S

FUEL 100LL

SJX N45°41.60′ W85°33.50′ at fld. NOTAM FILE SJX. Unmonitored.

UTC-5(-4DT) N45°43,27′ W85°31,22′

NOTAM FILE LAN

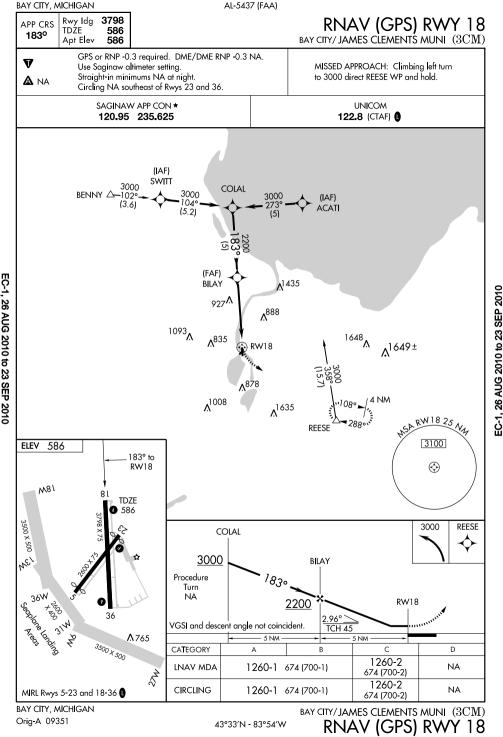
RWY 17: Tree. RWY 35: Thid dspicd 1350'. Trees. RWY 09-27: H2512X30 (ASPH) RWY 09: Thid dspicd 450'. Trees. RWY 27: Thid dspicd 240'. Trees.

AIRPORT REMARKS: Attended continuously. Deer on and invof arpt. Rwy 27 acft parked in primary sfc south side. Rwy 17 rolling terrain, rough with bare spots, LIRL Rwy 09-27 not for public use; without prior approval call

231-448-2071 or 231-448-2374. LIRL located 72' from pavement edge each side. Rwy 17-35 marked with 3'

yellow cones; Rwy 35 dsplcd thid marked with yellow cones and reflectors each side.

**GREEN BAY** 



Amdt 12 09351

EC-1, 26 AUG 2010 to 23 SEP 2010

43°33'N - 83°54'W

DETROIT

IAP

Park

**GREEN BAY** 

L-31B IAP

L-28J. 31C

## JAMES CLEMENTS MUNI (3CM) 3 S UTC-5(-4DT) RWY 18-36: H3798X75 (ASPH)

**BAY CITY** 

RWY 18: PAPI(P4L)-GA 4.0° TCH 27'. Trees.

RWY 36: PAPI(P4L)-GA 4.0° TCH 27'. Trees. RWY 05-23: H2600X75 (ASPH) MIRL RWY 05: Thid dspicd 226' Trees. RWY 23: PAPI(P2L)—GA 4.0° TCH 27'. Thid dspicd 159'. Road.

FUEL 100LL

AIRPORT REMARKS: Attended 1300Z‡-dusk. Occasional seaplane and agriculture ops; aerobatic maneuvers and skydiving activity at

LRA

MIRL

arpt. Ultralight activity on and invof arpt. Numerous sea gulls and

deer on and invof arpt. Rwy 05 and Rwy 36, occasional +100' high

SAGINAW (L) VORW/DME 112.9 MBS

WATERWAY 09-27: 3500X500 (WATER) WATERWAY 18-36: 3500X500 (WATER) WATERWAY 13-31: 2600X400 (WATER)

ships traversing apch surfaces during navigable seasons 600-800' from thids. Ship buoys in river channel. Rwy 05-23

twys marked with reflectors. ACTIVATE MIRL Rwy 18-36 and Rwy COMMUNICATIONS: CTAF/UNICOM 122.8

05-23, PAPI Rwys 23, 18, and 36-CTAF. (R) SAGINAW APP/DEP CON 120.95 (1100-0400Z±)

NOTAM FILE LAN

CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE MBS.

Chan 76 N43°31.90' 086° 8 NM to fld. 663/3W. HIWAS.

N43°32.82′ W83°53.73′

W81

Trailer

# BFAVFR ISLAND

BEAVER ISLAND (SJX) 4 SW B FUEL 100LL NOTAM FILE SJX

W84°04.64′

UTC-5(-4DT) N45°41.54' W85°34.00'

RWY 32: Thid dspicd 600'. Trees.

RWY 27: REIL, PAPI(P4L)—GA 4.0° TCH 32', Road.

RWY 09-27: H4300X75 (ASPH) MIRL RWY 09: REIL. PAPI(P4L)—GA 3.0° TCH 24'. Trees.

SEAPLANE REMARKS: No docks or ramps. Ship buoys in river channel.

RWY 14-32: 3300X120 (TURF)

RWY 14: Thid dsplcd 533'. Trees. RWY 05-23: 2130X120 (TURF) RWY 05: Trees. RWY 23: Thid dsplcd 794'. Trees. AIRPORT REMARKS: Attended 1300-2200Z‡. Rwys 05-23 and 14-32 CLOSED Nov thru Apr and when snow covered. Deer on and invof arpt. Rwy 09-27 quarry, dirt piles, equipment 165' N of rwy, 150' W of Rwy 17-35. Rwy

17-35, equipment parked along E side of rwy, S end. Rwy 17, - 20' drop off, N end of rwy. Rwy 14-32 marked with 3' cones; Rwy 23 and Rwy 14-32 dsplcd thids marked with three 3' yellow cones each side. ACTIVATE MIRL Rwv 09-27-CTAF. WEATHER DATA SOURCES: AWOS-3 118.075 (231) 448-3081. COMMUNICATIONS: CTAF/UNICOM 122.8

(R) MINNEAPOLIS CENTER APP/DEP CON 134.6 RADIO AIDS TO NAVIGATION: NOTAM FILE PLN. PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84′ W84°39.85′ 282° 38.2 NM to fld. 840/6W.

ST JAMES NDB (MHW) 382

RWY 17-35: 3500X140 (TURF)

COMMUNICATIONS: CTAF/UNICOM 122 8

WELKE

S4

2 S

FUEL 100LL

SJX N45°41.60′ W85°33.50′ at fld. NOTAM FILE SJX. Unmonitored.

UTC-5(-4DT) N45°43,27′ W85°31,22′

NOTAM FILE LAN

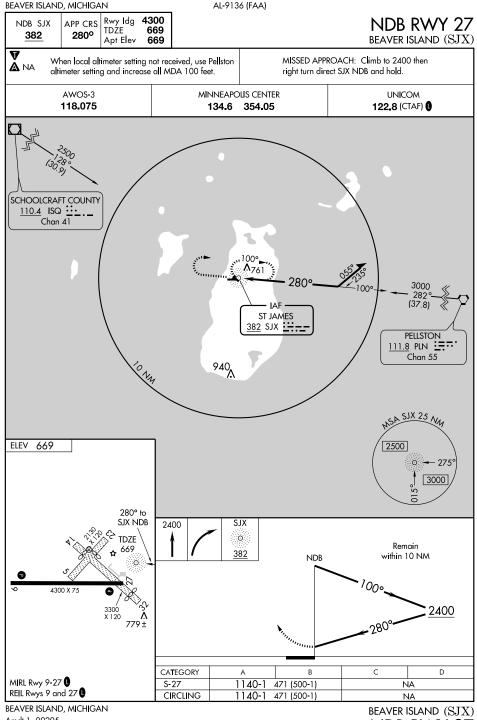
RWY 17: Tree. RWY 35: Thid dspicd 1350'. Trees. RWY 09-27: H2512X30 (ASPH) RWY 09: Thid dspicd 450'. Trees. RWY 27: Thid dspicd 240'. Trees.

AIRPORT REMARKS: Attended continuously. Deer on and invof arpt. Rwy 27 acft parked in primary sfc south side. Rwy 17 rolling terrain, rough with bare spots, LIRL Rwy 09-27 not for public use; without prior approval call

231-448-2071 or 231-448-2374. LIRL located 72' from pavement edge each side. Rwy 17-35 marked with 3'

yellow cones; Rwy 35 dsplcd thid marked with yellow cones and reflectors each side.

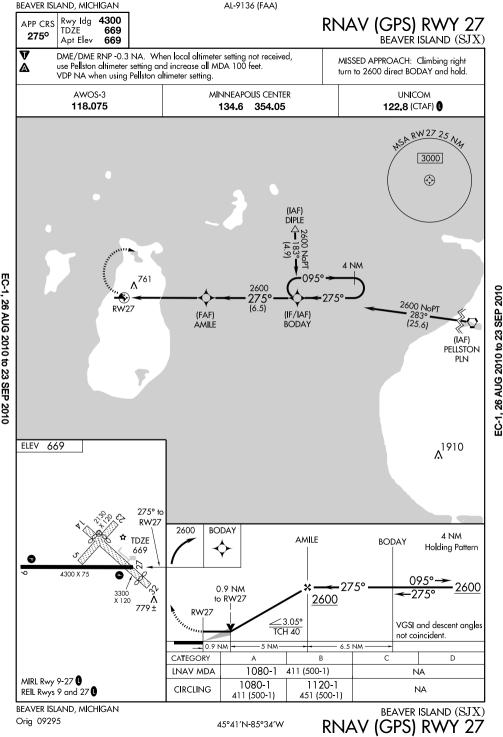
**GREEN BAY** 



Amdt 1 09295

EC-1, 26 AUG 2010 to 23 SEP 2010

NDB RWY 27



#### BELLAIRE ANTRIM CO (ACB) 1 NE UTC-5(-4DT) N44°59.32′ W85°11.90′

FUEL 100LL, JET A NOTAM FILE ACB

RWY 02-20: H5000X100 (ASPH) S-38. D-55 MIRL RWY 02: REIL, PAPI(P2L)—GA 3.0° TCH 42', Tree.

RWY 20: REIL, PAPI(P2L)—GA 3.25° TCH 45', Trees.

AIRPORT REMARKS: Attended Jun-Sep 1300-2300Z±. Oct-May 1200-22007±. For fuel other times call 231-536-7017. For acft maintenance repairs call 1-800-959-1829. Snow removal

equipment on rwy and twy during winter months. Birds on and invof arpt. MIRL Rwy 02-20 preset, to increase ints and ACTIVATE REIL Rwy 02-20—CTAF, Ldg fee applies to turbine and jet engine

acft; waived with 100 gallon fuel purchase. WEATHER DATA SOURCES: AWOS-3 119.275 (231) 533-8941.

COMMUNICATIONS: CTAF/UNICOM 122 7 (R) MINNFAPOLIS CENTER APP/DEP CON 132.9 GCO 121.725 (MINNEAPOLIS CENTER CLNC and FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE TVC TRAVERSE CITY (H) VORTACW 114.6 TVC

W85°33.00′ 040° 24.4 NM to fld. 912/2W. CLAM LAKE NDR (MHW) 251 CXK N44°53 96' W85°14 38' 023° 5.6 NM to fld. NOTAM FILE ACB. Unmonitored.

33333 Ca Ca Ca ଫଫଫ 33 Ç G G G

00000

GREEN RAY

IAP

H-2K, L-31B

03 (3

DETROIT COPTER

BELLEVILLE (43G) 3 SW UTC-5(-4DT) FIIFI 10011

RWY 15-33: 2253X80 (TURF)

COMMUNICATIONS: CTAF 122.9

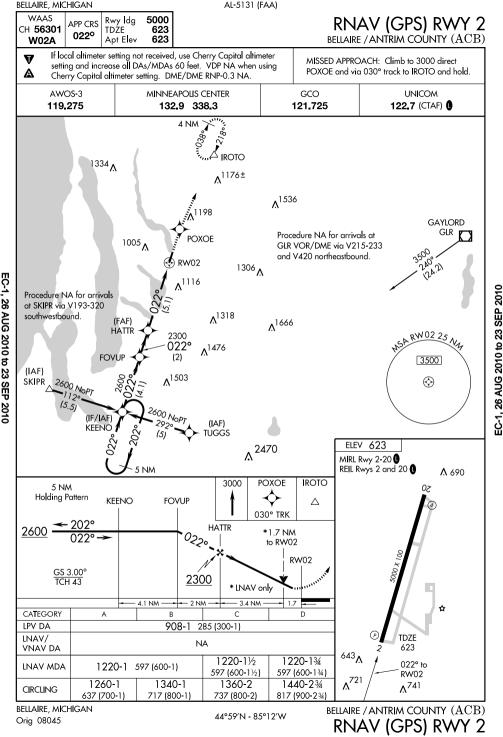
NOTAM FILE LAN

RWY 15: Fence, Thid dsplcd 853', Rgt tfc.

RWY 33: Thid dspicd 600'. Road. RWY 18-36: 2157X160 (TURF) (LOCAL USE ONLY) RWY 18: Trees. Rgt tfc. RWY 36: Road AIRPORT REMARKS: Attended 1300-2200Z‡. Rwy 18-36 local use only-displacements not marked. Rwy soft during thawing season. Winter ops verify rwy/snow conditions. Rwy 15-33 thlds and dsplcd thlds marked with cones.

N42°10.60′ W83°32.75′

Chan 93 N44°40.07'



EC-1, 26 AUG 2010 to 23 SEP 2010

135

CHICAGO

IAP

H-5E, 10F, L-281

BENTON HARBOR

SOUTHWEST MICHIGAN RGNL (BEH) 2 NE

FUEL 100LL, JET A1+ OX 3 NOTAM FILE BEH RWY 09-27: H5107X100 (ASPH-GRVD) RWY 09: REIL. VASI(V4L)-GA 3.0° TCH 44'.

RWY 27: MALSR. Thid dsplcd 571'. Trees. RWY 13-31: H3661X100 (ASPH) S-30, D-45

MIRL RWY 13: REIL, VASI(V4L)-GA 3.5° TCH 45'. RWY 31: REIL. VASI(V4L)-GA 4.0° TCH 41'. Trees.

RWY 18-36: H2498X100 (ASPH) S-16 MIRL

AIRPORT REMARKS: Attended Sat-Sun 1200-2100Z±, May-Oct Mon-Fri

1200-0100Z‡, Nov-Apr Mon-Fri 1200-2300Z‡. For attendant other times call 269-545-3535. 269-757-1634, Call-in fee. For svc after hrs call 269-325-7529. Call-in fee. Rwv 09 +38' lighted

arriving/departing Benton Harbor announce intentions on CTAF. Rwy 18-36 pavement cracking. ACTIVATE HIRL Rwy 09-27, MIRL

Rwys 13-31 and 18-36; MALSR Rwy 27; REIL Rwy 09, Rwy 13

S-60, D-100, 2D-100

ILS antenna, 152' from rwy end, 300' right. Rwy 13 and Rwy 18 drop off begins 90' from paved sfc, Rwy 09 drop off begins 110'

from thld. Birds and deer on and invof arpt. Snow removal ops in progress winter months; vehicle operators will monitor CTAF. Acft

UTC-5(-4DT) N42°07.72′ W86°25.71′

HIRL

0.3% up E

single engine acft waived with minimum fuel purchase. WEATHER DATA SOURCES: ASOS 121.55 (269) 925-9008 COMMUNICATIONS: CTAF/UNICOM 123.0

KEELER RCO 122.1R 116.6T (LANSING RADIO) (R) SOUTH BEND APP/DEP CON 118.55 (Sun-Fri 1030-0500Z, Sat 1030-0445Z), other times ctc

R CHICAGO CENTER APP/DEP CON 127.55 **SOUTH BEND CLNC DEL 119.7** 

AIRSPACE: CLASS E svc 1100-0430Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

KEELER (L) VOR/DME 116.6 ELX Chan 113 N42°08.66′ W86°07.36′ 266° 13.7 NM to fld. 795/00E.

MALLY NDB (LOM) 397 BE N42°07.61′ W86°18.80′ 274° 5.1 NM to fld. Unmonitored.

ILS 108.5 I-BEH Rwy 27. LOM MALLY NDB. Unmonitored. LOC unusable byd 20° left of course and byd 16 NM.

BERRIEN SPRINGS N41°57.10′ W86°22.06′

CHICAGO

RC0 121.625 (LANSING RADIO)

CHICAGO L-281

N41°57.10′ W86°22.06′

## BERRIEN SPRINGS

#### ANDREWS UNIVERSITY AIRPARK (C2Ø) 2 W UTC-5(-4DT)

S4 FIIFI 100LL NOTAM FILE LAN RWY 13-31: H4161X75 (ASPH) LIRL (NSTD)

RWY 13: Trees. Rgt tfc. RWY 31: Thid dspicd 1140'. Trees.

RWY 03-21: 1944X115 (TURF) (LOCAL USE ONLY)

RWY 03: Thid dspicd 613'. Trees.

RWY 21: Thid dspicd 550'. Trees. Rgt tfc.

AIRPORT REMARKS: Attended Sun-Fri 1300-2200Z‡. Svcs avbl Sun-Fri only. Fuel 24 hour self svc. Rwy 31 NSTD LIRL due to dsplcd thid

not lighted. Last 3,021' is lighted. ACTIVATE LIRL Rwy 13-31-CTAF.

BERRIEN SPRINGS RCO 121.625 (LANSING RADIO) (R) SOUTH BEND APP/DEP CON 118.55 (Sun-Fri 1030-0500Z, Sat 1030-0445Z), other times ctc R CHICAGO CENTER APP/DEP CON 127.55

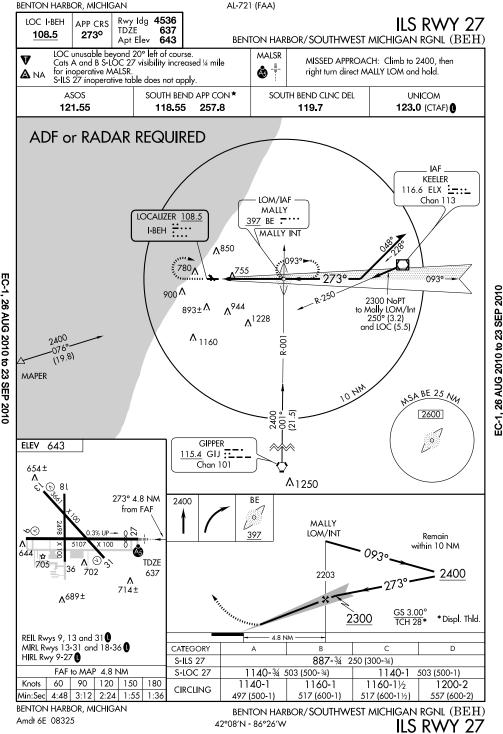
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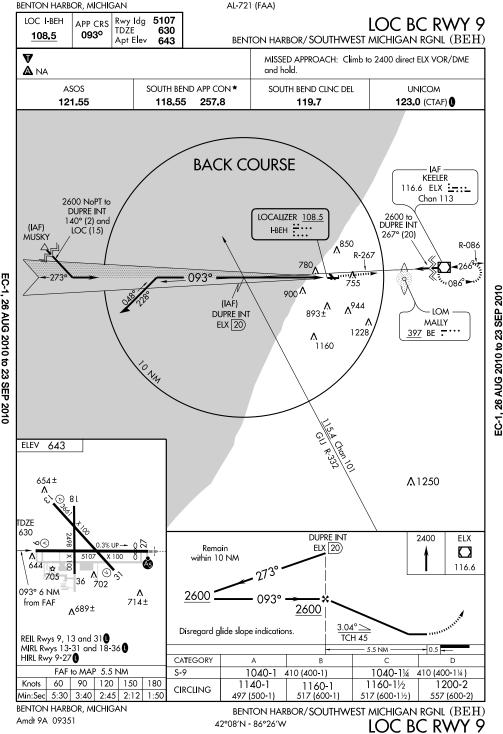
COMMUNICATIONS: CTAF/UNICOM 122.7

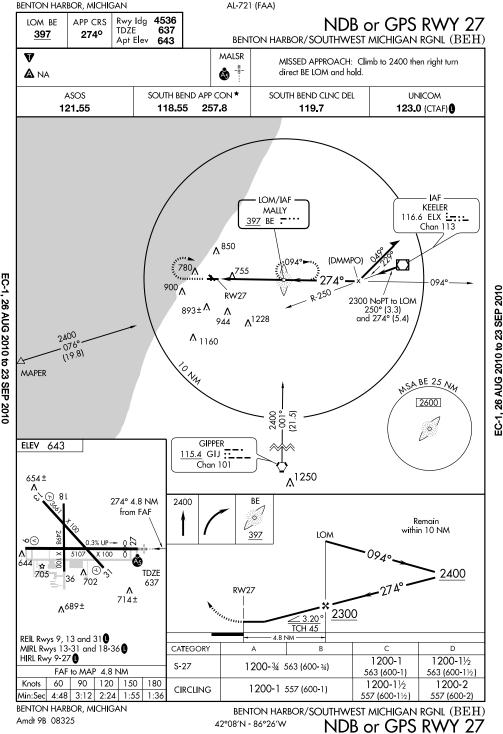
Chan 101 N41°46.12' W86°19.11' 349° 11.2 NM to fld. 804/00E. HIWAS.

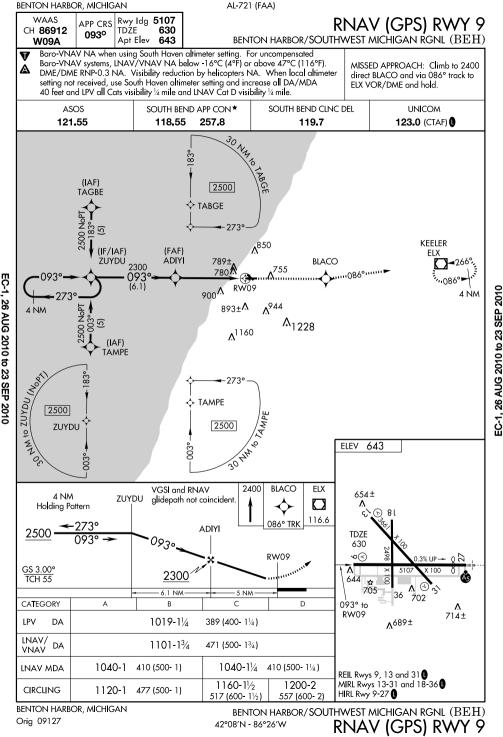
5107 X 100 o ୍ଦ୍ରଦ୍ର 03 and Rwy 31-CTAF. Ldg fee for all multi-engine acft and commercial

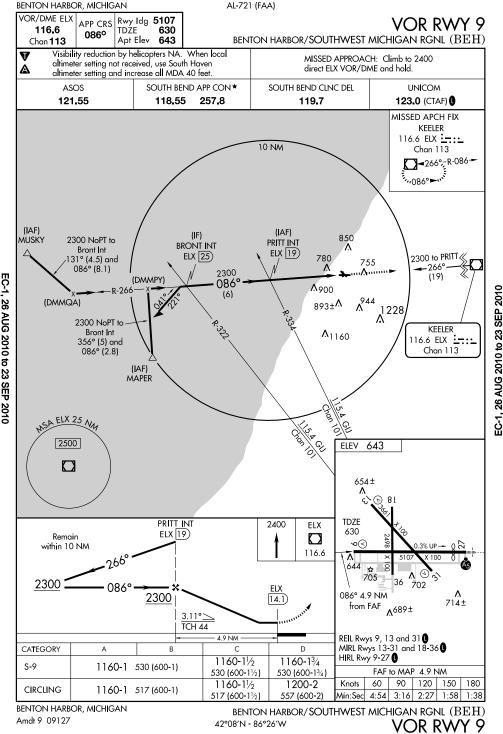
> 1-281 IAP 03 ය ය €3 ¢ €3 €3 C3 (3 €3 €3 C3 €3 Œ ദേദ €3 €3 03

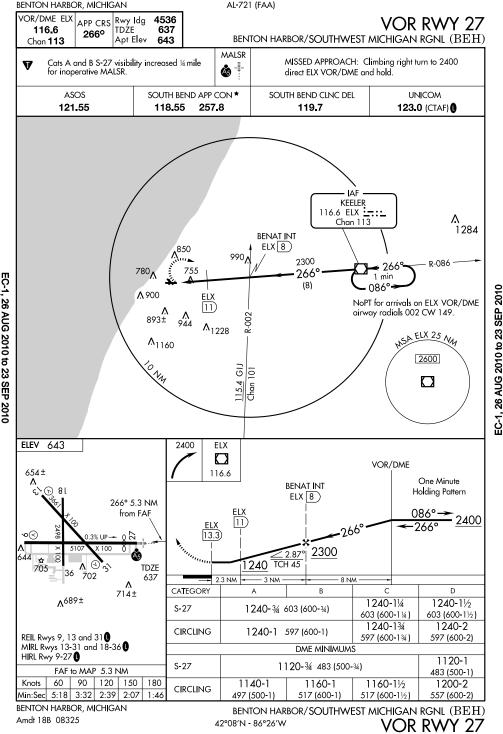












135

CHICAGO

IAP

H-5E, 10F, L-281

BENTON HARBOR

SOUTHWEST MICHIGAN RGNL (BEH) 2 NE

FUEL 100LL, JET A1+ OX 3 NOTAM FILE BEH RWY 09-27: H5107X100 (ASPH-GRVD) RWY 09: REIL. VASI(V4L)-GA 3.0° TCH 44'.

RWY 27: MALSR. Thid dsplcd 571'. Trees. RWY 13-31: H3661X100 (ASPH) S-30, D-45

MIRL RWY 13: REIL, VASI(V4L)-GA 3.5° TCH 45'. RWY 31: REIL. VASI(V4L)-GA 4.0° TCH 41'. Trees.

RWY 18-36: H2498X100 (ASPH) S-16 MIRL

AIRPORT REMARKS: Attended Sat-Sun 1200-2100Z±, May-Oct Mon-Fri

1200-0100Z‡, Nov-Apr Mon-Fri 1200-2300Z‡. For attendant other times call 269-545-3535. 269-757-1634, Call-in fee. For svc after hrs call 269-325-7529. Call-in fee. Rwv 09 +38' lighted

arriving/departing Benton Harbor announce intentions on CTAF. Rwy 18-36 pavement cracking. ACTIVATE HIRL Rwy 09-27, MIRL

Rwys 13-31 and 18-36; MALSR Rwy 27; REIL Rwy 09, Rwy 13

S-60, D-100, 2D-100

ILS antenna, 152' from rwy end, 300' right. Rwy 13 and Rwy 18 drop off begins 90' from paved sfc, Rwy 09 drop off begins 110'

from thld. Birds and deer on and invof arpt. Snow removal ops in progress winter months; vehicle operators will monitor CTAF. Acft

UTC-5(-4DT) N42°07.72′ W86°25.71′

HIRL

0.3% up E

single engine acft waived with minimum fuel purchase. WEATHER DATA SOURCES: ASOS 121.55 (269) 925-9008 COMMUNICATIONS: CTAF/UNICOM 123.0

KEELER RCO 122.1R 116.6T (LANSING RADIO) (R) SOUTH BEND APP/DEP CON 118.55 (Sun-Fri 1030-0500Z, Sat 1030-0445Z), other times ctc

R CHICAGO CENTER APP/DEP CON 127.55 **SOUTH BEND CLNC DEL 119.7** 

AIRSPACE: CLASS E svc 1100-0430Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

KEELER (L) VOR/DME 116.6 ELX Chan 113 N42°08.66′ W86°07.36′ 266° 13.7 NM to fld. 795/00E.

MALLY NDB (LOM) 397 BE N42°07.61′ W86°18.80′ 274° 5.1 NM to fld. Unmonitored.

ILS 108.5 I-BEH Rwy 27. LOM MALLY NDB. Unmonitored. LOC unusable byd 20° left of course and byd 16 NM.

BERRIEN SPRINGS N41°57.10′ W86°22.06′

CHICAGO

RC0 121.625 (LANSING RADIO)

CHICAGO L-281

N41°57.10′ W86°22.06′

# BERRIEN SPRINGS

### ANDREWS UNIVERSITY AIRPARK (C2Ø) 2 W UTC-5(-4DT)

S4 FIIFI 100LL NOTAM FILE LAN RWY 13-31: H4161X75 (ASPH) LIRL (NSTD)

RWY 13: Trees. Rgt tfc. RWY 31: Thid dspicd 1140'. Trees.

RWY 03-21: 1944X115 (TURF) (LOCAL USE ONLY)

RWY 03: Thid dspicd 613'. Trees.

RWY 21: Thid dspicd 550'. Trees. Rgt tfc.

AIRPORT REMARKS: Attended Sun-Fri 1300-2200Z‡. Svcs avbl Sun-Fri only. Fuel 24 hour self svc. Rwy 31 NSTD LIRL due to dsplcd thid

not lighted. Last 3,021' is lighted. ACTIVATE LIRL Rwy 13-31-CTAF.

BERRIEN SPRINGS RCO 121.625 (LANSING RADIO) (R) SOUTH BEND APP/DEP CON 118.55 (Sun-Fri 1030-0500Z, Sat 1030-0445Z), other times ctc R CHICAGO CENTER APP/DEP CON 127.55

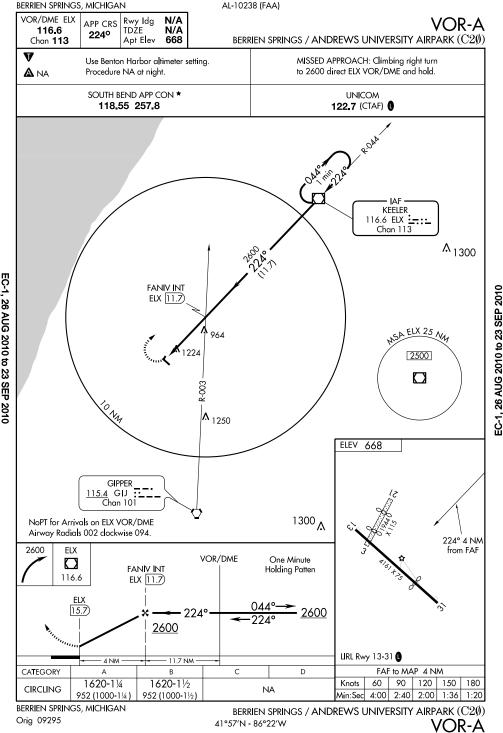
RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. GIPPER (H) VORTACW 115.4 GIJ

COMMUNICATIONS: CTAF/UNICOM 122.7

Chan 101 N41°46.12' W86°19.11' 349° 11.2 NM to fld. 804/00E. HIWAS.

5107 X 100 o ୍ଦ୍ରଦ୍ର 03 and Rwy 31-CTAF. Ldg fee for all multi-engine acft and commercial

> 1-281 IAP 03 ය ය €3 ¢ €3 €3 C3 (3 €3 €3 C3 €3 Œ ദേദ €3 €3 03



## BIG RAPIDS ROBEN-HOOD

RWY 09-27: H4300X75 (ASPH) S-20

S4

COMMUNICATIONS: CTAF/UNICOM 122.8

(R) MINNEAPOLIS CENTER APP/DEP CON 120.85 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

RWY 14: Trees.

RWY 09: REIL PAPI(P2L)-GA 3.33° TCH 25'. Trees. RWY 27: REIL. PAPI(P4L). Tree. RWY 14-32: H2700X75 (ASPH) S-20

(RQB)

MIRL RWY 32: Tree. AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡. 24 hr self serve fuel. Call in fee charged. Deer on and invof arpt. Rwy 14-32

FUEL 100LL NOTAM FILE ROB

extensive cracking, Ultralight activity on and invof arpt, Rwy 09 REIL OTS indef. ACTIVATE MIRL Rwy 09-27 and Rwy 14-32; PAPI

MIRL

Rwy 09 and Rwy 27; REIL Rwy 09 and Rwy 27-CTAF. WEATHER DATA SOURCES: AWOS-3 121.125 (231) 796-0884.

2 NW UTC-5(-4DT) N43°43.36′ W85°30.24′

1.0% up W

W85°42.97' 047° 12.8 NM to fld. 920/1W.

WHITE CLOUD (L) VOR/DME 117.6 HIC Chan 123 N43°34.49'

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**●** ~

4300 X 75

€3 €3

(See FLINT)

# BLISSFIELD

BISHOP INTL

# BETZ

(44G) 2 N UTC-5(-4DT) N41°51.34′ W83°52.25′

FUEL 100LL NOTAM FILE LAN

RWY 09-27: 2602X92 (TURF)

RWY 09: Thid dsplcd 415'. Road. AIRPORT REMARKS: Unattended, Fuel avbl by prior arrangement; phone 517-499-4860, Rwy 09-3' ditch 10' from

thId. To confirm snow conditions winter months call 517-499-4860. Rwy 09-27 NSTD LIRL on arpt not for

public use; marked with white lgts. Rwy 09-27 thlds and dsplcd thlds marked with cones. **COMMUNICATIONS: CTAF 122.9** 

BOIS BLANC ISLAND (6Y1) 3 NW 664 B NOTAM FILE LAN RWY 10-28: H3498X75 (ASPH) RWY 10: Thid dspled 90', Road.

10-28-CTAF. **COMMUNICATIONS: CTAF 122.9** RADIO AIDS TO NAVIGATION: NOTAM FILE PLN.

PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84′ W84°39.85′ 840/6W. HIWAS.

BOYNE CITY MUNI (N98) UTC-5(-4DT) N45°12.50′ W84°59.42′ 1 SE 657 FUEL 100LL NOTAM FILE LAN

RWY 09-27: H4000X75 (ASPH) MIRL

COMMUNICATIONS: CTAF/UNICOM 122.8 RADIO AIDS TO NAVIGATION: NOTAM FILE PLN.

27-122.9.

RWY 09: PAPI(P2L)—GA 4.0° TCH 28'. Thid dsplcd 600'. Road.

RWY 27: Thid dspicd 390'. Road.

UTC-5(-4DT) N45°45.98' W84°30.23'

046° 10.6 NM to fld.

Rwv 28: REIL. PAPI(P4L)-GA 4.0° TCH 33'. Trees. AIRPORT REMARKS: Unattended. 231-634-7123 manager residence, 231-634-7052 unattended arpt manager office phone at arpt, 231-634-7061 unattended arpt phone. Deer and birds on and invof arpt. ACTIVATE MIRL Rwy

LAKE HURON

L-31C

**GREEN BAY** L-31B

AIRPORT REMARKS: Unattended. Self svc fuel. Deer and birds on and invof rwys. +4' fence parallel to rwy, 84' south of rwy centerline, +6' fence 122' north of rwy centerline. ACTIVATE MIRL Rwy 09-27, PAPI Rwy 09, REIL Rwy

RWY 27: REIL. Trees.

PELISTON (I) VORTACW 111.8 PLN Chan 55 N45°37.84′ W84°39.85′ 215° 28.9 NM to fld .840./6W HIWAS

DETROIT COPTER

CHICAGO

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Residential

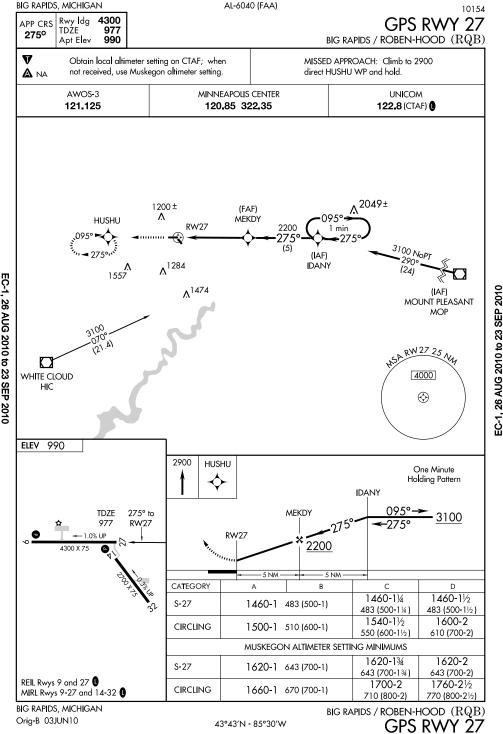
Residential

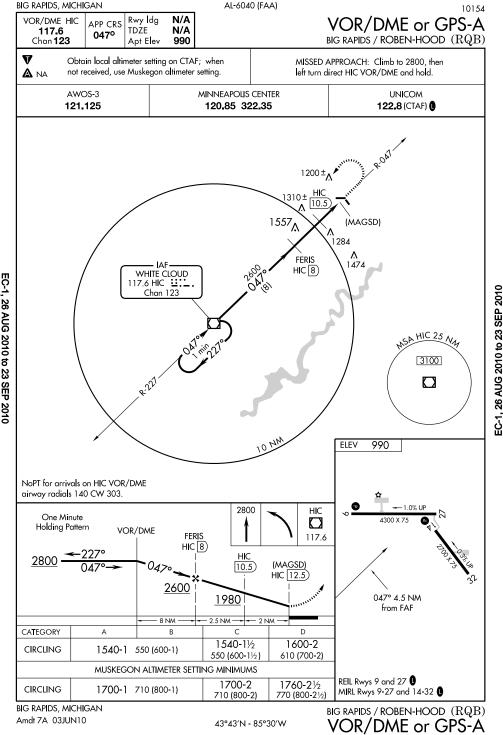
Area

L-281

IAP

C3 C3 C3





**BOYNE FALLS** BOYNE MOUNTAIN (BFA) 1 W UTC-5(-4DT) N45°09.95' W84°55.45' LAKE HURON 719 FUEL 100LL, JET A + NOTAM FILE LAN H-2K, L-31B RWY 17-35: H5187X60 (ASPH) LIRL(NSTD) IAP RWY 17: REIL. Thid dspicd 300', Road. G G RWY 35: REIL. Thid dspicd 500'. Trees. €3 AIRPORT REMARKS: Unattended. For fuel call 231-549-6000. Deer and ଫ ଫ ଫ birds on and invof arpt. Rwy 17-35 extensive cracking. Rwy 17-35 NSTD LIRL, 80' from rwy edges. Rwy has reflectors

MICHIGAN

summer months. ACTIVATE NSTD LIRL Rwy 17-35 and REIL Rwys 17 and 35-122.85. Rwy 17-35 has 10' paved shoulder each G G side; last 4700' Rwy 35. COMMUNICATIONS: CTAF/UNICOM 122.8 €3 R MINNEAPOLIS CENTER APP/DEP CON 134 6 Ski Area Residential €3 RADIO AIDS TO NAVIGATION: NOTAM FILE PLN. PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84′ W84°39.85′ 208° 30 NM to fld. 840/6W. HIWAS. 35 03 C3 Œ

BOYNE MOUNTAIN (See BOYNE FALLS)

BRANCH CO MEML (See COLDWATER)

BRIGHTON (45G) 3 N

UTC-5(-4DT)

NOTAM FILE LAN

RWY 04-22: H3120X24 (ASPH)

RWY 04: Thid dsplcd 195'. Trees.

MIRL (NSTD)

rotating bcn, MIRL Rwy 04-22 and PAPI Rwy 22-CTAF. COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. SALEM (L) VORTAC 114.3 SVM

BROOKLYN SHAMROCK FLD

(6G8) 1 SE UTC-5(-4DT) N42°05.70′ W84°14.45′ NOTAM FILE LAN

RWY 01-19: 2822X100 (TURF) LIRL

RWY 01: Tree. Rgt tfc. RWY 19: Thid dsplcd 613'. P-line.

AIRPORT REMARKS: Attended May-Nov irregularly. Dec-Apr arpt CLOSED. CAUTION: Deer on and invof arpt. 105' unlighted p-line and tower ¼ mile from thid extended left and right of centerline Rwy 19, ACTIVATE LIRL Rwy 01-19—CTAF. All tfc patterns conducted E of Rwy 01-19. Rwy 01-19 marked with 3' yellow cones; dsplcd thld

marked with 3 cones each side. **COMMUNICATIONS: CTAF 122.9** 

BROOKS FLD (See MARSHALL) BUNCH'S HALF ACRE (See HARRIETTA)

(See DEXTER) CADILLAC N44°16.50′ W85°24.86′

NDB (MHW) 269 CAD at Wexford Co.

NOTAM FILE CAD

CACKLEBERRY

N42°34.19′ W83°46.71′ Chan 90 N42°24.53′ W83°35.65′

RWY 22: PAPI(P4L)—GA 3.6° TCH 29'. Thid dsplcd 365'. Trees. 323° 12.7 NM to fld. 950/3W.

DETROIT COPTER L-28J. A

AIRPORT REMARKS: Attended irregularly, Rwy 04-22 NSTD MIRL located 50' from rwy edge, NSTD configuration for thids, Rwy 22 NSTD PAPI, NSTD installation-may only be visible on short final apph, For local use only, ACTIVATE

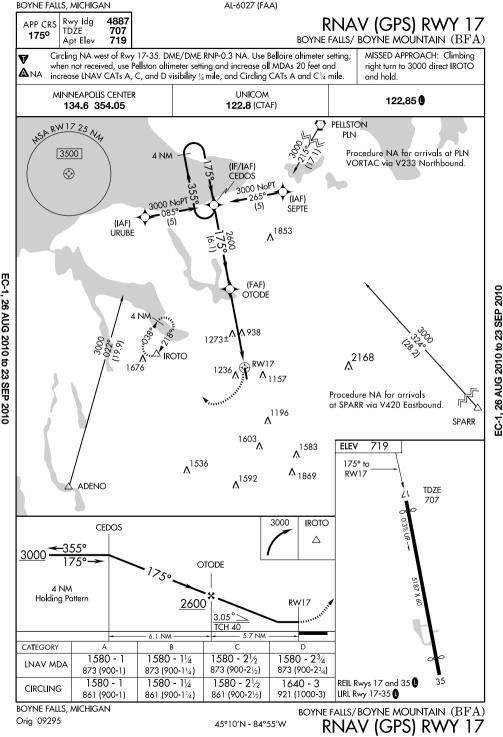
DETROIT

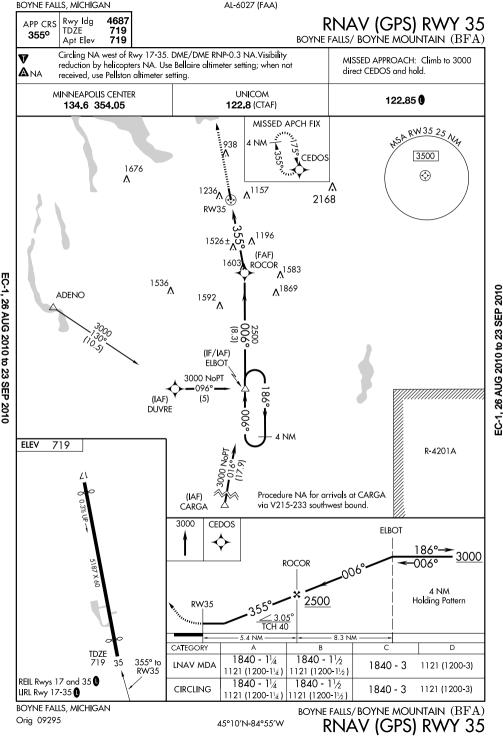
COPTER

GREEN BAY

L-31B

137





138 MICHIGAN CADILLAC WEXFORD CO (CAD) 2 N UTC-5(-4DT) N44°16.52′ W85°25.14′ **GREEN BAY** В S4 FUEL 100LL, JET A NOTAM FILE CAD H-2K, L-31B RWY 07-25: H5000X100 (ASPH-PFC) S-30, D-45 MIRL ΙΔΡ RWY 07: REIL. MALS. VASI(V2L)-GA 3.0° TCH 41'. RWY 25: REIL. PAPI(P4L)-GA 3.0° TCH 44'. Railroad. RWY 18-36: 2006X150 (TURF) RWY 18: Trees. RWY 36: Stack. AIRPORT REMARKS: Attended Mon-Fri 1200-2200Z‡, Jun-Aug Sat-Sun 1200-2200‡, Sep-May Sat-Sun 1200-1800Z‡. After hrs attendance avbl on reg 231-779-9211. Unattended New Years. C3 Easter, Thanksgiving, Christmas. Fuel 24 hr self svc. Rwy 18-36 (3 G G CLOSED Dec thru Mar and when snow covered except for ski equipped acft. Deer on and invof arpt. Glider activity on and invof arpt Apr-Nov. Ultralight activity on and invof arpt Apr-Nov.

ACTIVATE MIRL Rwy 07-25; MALS Rwy 07; REIL Rwy 07 and Rwy 25; VASI Rwy 07 and PAPI Rwy 25-CTAF. Ldg fee. Ldg fee for commercial ops waived with minimum fuel purchase. Rwy 18-36 €3 WEATHER DATA SOURCES: AWOS-3 128.325 (231) 779-9536. GCO 121.725 (MINNEAPOLIS CENTER CLNC and LANSING FSS)

TVC Chan 93 N44°40.07′ W85°33.00′ 169° 24.2 NM to fld. 912/2W.

CAD N44°16.50′ W85°24.86′ CADILLAC NDB (MHW) 269 MA N44°14.22′ W85°32.84′ WEXOR NDB (LOM) 336 ILS/DME 108.55 I-MAY Chan 22(Y)

(See PLYMOUTH)

NOTAM FILE LAN. (H) VORTAC 115.7 CRL Chan 104 028° 10.9 NM to Detroit Metropolitan Wayne Co. 629/3W.

RWY 36: Trees.

AIRPORT REMARKS: Attended irregularly. No snow removal. Acft maintenance by prior arrangement; call arpt manager on 734-654-6249. Rwy 09-27 thids marked with tires; Rwy 09 dsplcd thid marked with 3 yellow tires each

RWY 27: Trees.

VOR portion unusable 360°-040° blo 5000'. DME unusable byd 35 NM blo 2500'.

071° 6 NM to fld. LOM WEXOR NDB.

at fld. NOTAM FILE CAD.

CAGNEY (See CLIO) CAIN FLD (See STANWOOD) CALKINS FLD (see WAYLAND) CALVIN CAMPBELL MUNI (See INDIAN RIVER)

CANTON-PLYMOUTH-METTETAL CAPITAL REGION INTL

**CARLETON** N42°02.88′ W83°27.45′

RCO 122.1R 115.7T (LANSING RADIO)

S2 FUEL 100LL

RWY 09: Thid dsplcd 660'. P-line.

side. Rwv 18-36 marked with 3' vellow cones.

RWY 18-36: 2575X60 (TURF) RWY 18: Thid dsplcd 1000'. P-line.

RWY 09-27: 1920X60 (TURF)

COMMUNICATIONS: CTAF 122.9

HIWAS.

CARLETON

(See LANSING)

marked with 18 inch vellow cones.

COMMUNICATIONS: CTAF/UNICOM 122.8 (R) MINNEAPOLIS CENTER APP/DEP CON 132.9

CARGL N42°21.38′ W82°57.26′. NOTAM FILE DET.

NDB (MHW/LOM) 230 VO 327° 4 NM to Coleman A. Young Muni.

WICKENHEISER (W87) 3 S UTC-5(-4DT) N42°01.09' W83°22.63'

NOTAM FILE LAN

Rwy 07.

DETROIT

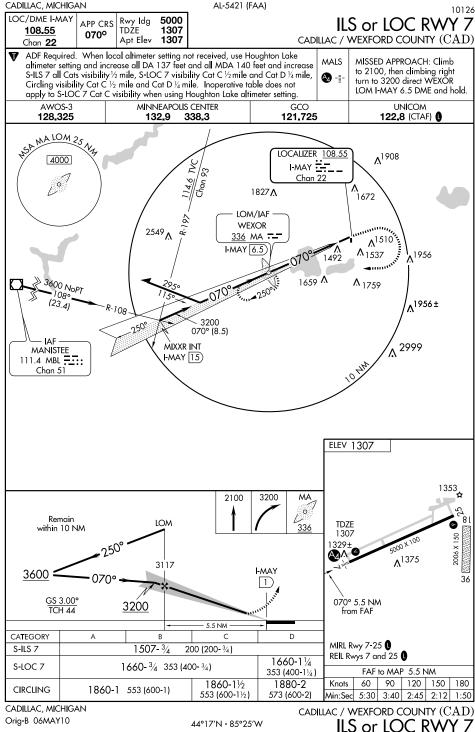
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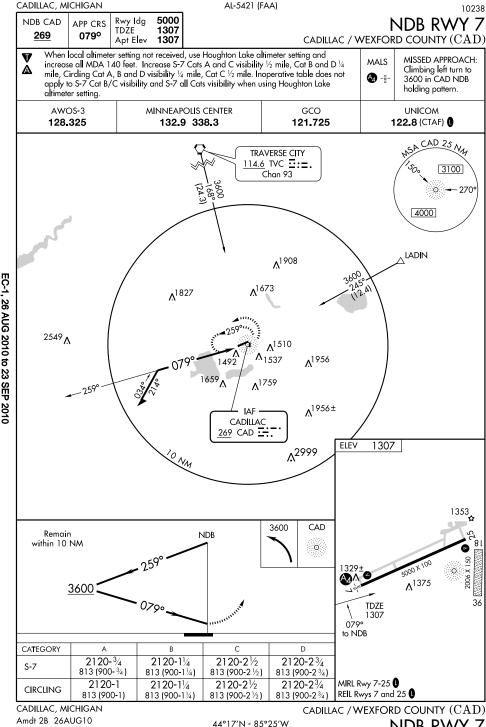
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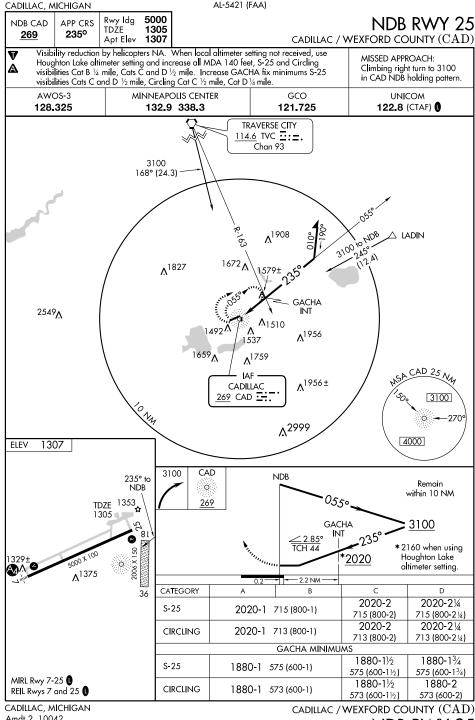
COPTER

H-10G, L-28J, A

RADIO AIDS TO NAVIGATION: NOTAM FILE TVC. TRAVERSE CITY (H) VORTACW 114.6 HIWAS

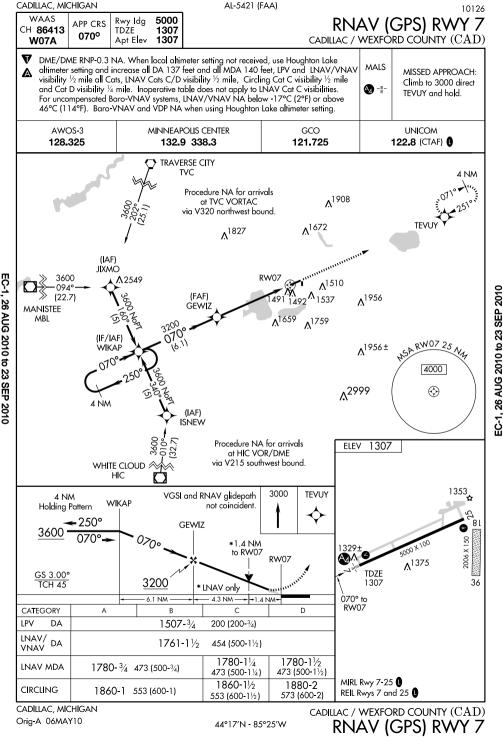






Amdt 2 10042

EC-1, 26 AUG 2010 to 23 SEP 2010



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26 AUG 2010 to 23 SEP 2010

Orig 10042 44°17′N - 85°25′W

# CARO

# TUSCOLA AREA

RWY 05: REIL. PAPI (P4L)—GA 3.0° TCH 25'. Trees. RWY 23: REIL. PAPI(P4L)-GA 4.0°. Trees.

FUEL 100LL, JET A NOTAM FILE CFS

RWY 30: Thid dspicd 500'. Trees.

(CFS) 3 SW UTC-5(-4DT) N43°27.53' W83°26.73'

0.4% up NE.

UTC-5(-4DT) N43°29.49' W82°37.42'

AIRPORT REMARKS: Attended irregularly. For fuel after hrs call 989-673-2849; if arpt manager is unavbl call 989-673-2849.

S4

RWY 12-30: 2300X110 (TURF) RWY 12: Trees.

RWY 05-23: H4300X75 (ASPH) MIRL

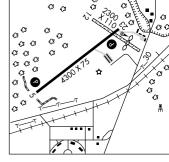
Deer on arpt, ACTIVATE MIRL Rwy 05-23; REIL and PAPI Rwy 05

and 23-CTAF. Rwy 12-30 thids and dsplcd thids marked with cones. WEATHER DATA SOURCES: AWOS-3 119,275 (989) 672-4182.

COMMUNICATIONS: CTAF/UNICOM 123.0 (R) SAGINAW APP/DEP CON 120.95 (1100-0400Z±) CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE MBS. SAGINAW (L) VORW/DME 112.9 MBS Chan 76 N43°31.90' W84°04.64' 102° 27.9 NM to fld. 663/3W. HIWAS.

(2F2)



## CARSONVILLE CIRCLE U HELIPORT 729

### NOTAM FILE LAN HELIPAD H1: H47X17 (CONC)

HELIPORT REMARKS: Attended dusk-dawn, Apch departure routes 340°-020° and 115°-140°. Helipad H1 perimeter

lgts. Perimeter lgts OTS indef. COMMUNICATIONS: CTAF/UNICOM 123.05

CHARLEVOIX MUNI

NM

(CVX) 1 SW UTC-5(-4DT) S4 FUEL 100LL, JET A NOTAM FILE CVX RWY 09-27: H4550X75 (ASPH) S-12.5 MIRL

5 SW

RWY 09: REIL. PAPI(P4R)-GA 3.0°. Tree.

RWY 27: REIL, PAPI(P4R)-GA 3.0° TCH 31', Trees.

RWY 04-22: 1280X200 (TURF)

RWY 22: Tree. RWY 04: Trees.

AIRPORT REMARKS: Attended dawn-dusk, For fuel dawn-dusk call

231-547-2141. After hrs call 231-547-2058. Rwy 04-22 CLOSED Nov-Apr. Deer and birds on and invof arpt. Rwy 09

preferred rwy for ldg ngts, jets and turboprop acft. Rwy 27 preferred rwy for tkf ngts, jets and turboprop acft. Rwy 09-27 slopes up from E to W. -100' quarry/mine, 300' from Rwy 9 thld. ACTIVATE MIRL Rwy 09-27: REIL and PAPI Rwy 09 and Rwy

27—CTAF. Rwy 04-22 marked with 3' yellow cones. Landing fee. Landing fee waived with minimum fuel purchase. WEATHER DATA SOURCES: AWOS-3 120 (231) 237-9703.

COMMUNICATIONS: CTAF/UNICOM 122.8 (R) MINNEAPOLIS CENTER APP/DEP CON 134.6 GCO 121.725 (MINNEAPOLIS CENTER and FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE PLN.

COMM/NAV/WEATHER REMARKS: GCO OTS indef.

PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84' W84°39.85' 239° 32.4 NM to fld. 840/6W. HIWAS NDB (MHW) 392 CVX N45°18.11′ W85°15.20′ at fld. NOTAM FILE CVX. Unmonitored. NDB unusable byd 15

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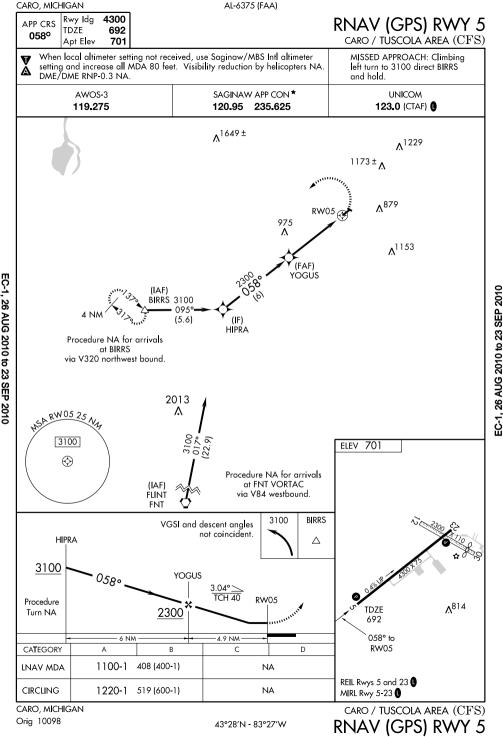
DETROIT

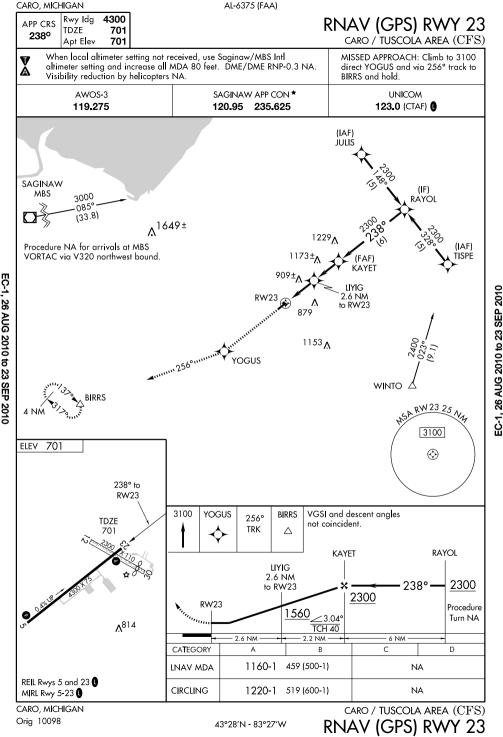
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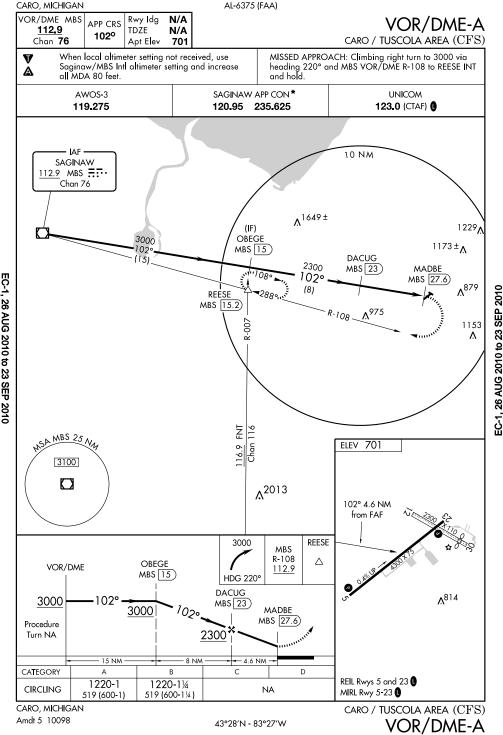
IAP

L-28J. 31C

N45°18.29' W85°16.52' **GREEN BAY** L-31B IAP Residential Area <del>Yını'nın'</del>n 4550 X 75 Quarr







# CARO

# TUSCOLA AREA

RWY 05: REIL. PAPI (P4L)—GA 3.0° TCH 25'. Trees. RWY 23: REIL. PAPI(P4L)-GA 4.0°. Trees.

and 23-CTAF. Rwy 12-30 thids and dsplcd thids marked with

AIRPORT REMARKS: Attended irregularly. For fuel after hrs call 989-673-2849; if arpt manager is unavbl call 989-673-2849.

FUEL 100LL, JET A NOTAM FILE CFS

RWY 30: Thid dspicd 500'. Trees.

(CFS) 3 SW UTC-5(-4DT) N43°27.53' W83°26.73'

0.4% up NE.

MBS Chan 76 N43°31.90'

WEATHER DATA SOURCES: AWOS-3 119,275 (989) 672-4182. COMMUNICATIONS: CTAF/UNICOM 123.0 (R) SAGINAW APP/DEP CON 120.95 (1100-0400Z±)

CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE MBS.

SAGINAW (L) VORW/DME 112.9

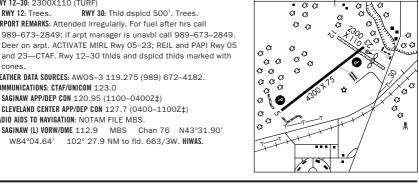
S4

RWY 12-30: 2300X110 (TURF) RWY 12: Trees.

RWY 05-23: H4300X75 (ASPH) MIRL

W84°04.64' 102° 27.9 NM to fld. 663/3W. HIWAS.

(2F2)



139

DETROIT

IAP

L-28J. 31C

## CARSONVILLE CIRCLE U HELIPORT 729

### NOTAM FILE LAN HELIPAD H1: H47X17 (CONC)

CHARLEVOIX MUNI

cones.

lgts. Perimeter lgts OTS indef.

COMMUNICATIONS: CTAF/UNICOM 123.05

S4 FUEL 100LL, JET A NOTAM FILE CVX RWY 09-27: H4550X75 (ASPH) S-12.5 MIRL

1 SW UTC-5(-4DT)

5 SW

RWY 09: REIL. PAPI(P4R)-GA 3.0°. Tree. RWY 27: REIL, PAPI(P4R)-GA 3.0° TCH 31', Trees.

RWY 04-22: 1280X200 (TURF)

(CVX)

RWY 22: Tree. RWY 04: Trees.

AIRPORT REMARKS: Attended dawn-dusk, For fuel dawn-dusk call 231-547-2141. After hrs call 231-547-2058. Rwy 04-22

CLOSED Nov-Apr. Deer and birds on and invof arpt. Rwy 09 preferred rwy for ldg ngts, jets and turboprop acft. Rwy 27 preferred rwy for tkf ngts, jets and turboprop acft. Rwy 09-27 slopes up from E to W. -100' quarry/mine, 300' from Rwy 9 thld. ACTIVATE MIRL Rwy 09-27: REIL and PAPI Rwy 09 and Rwy

27—CTAF. Rwy 04-22 marked with 3' yellow cones. Landing fee. Landing fee waived with minimum fuel purchase. WEATHER DATA SOURCES: AWOS-3 120 (231) 237-9703.

COMMUNICATIONS: CTAF/UNICOM 122.8 (R) MINNEAPOLIS CENTER APP/DEP CON 134.6 GCO 121.725

(MINNEAPOLIS CENTER and FLIGHT SERVICES) RADIO AIDS TO NAVIGATION: NOTAM FILE PLN.

PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84' W84°39.85' 239° 32.4 NM to fld. 840/6W. HIWAS

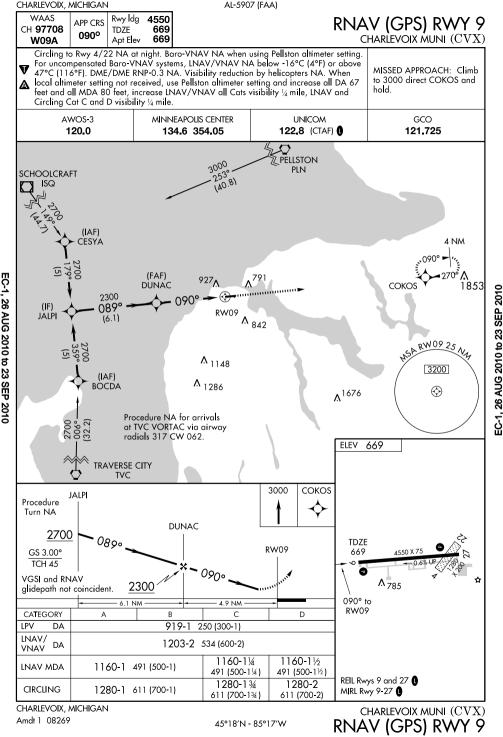
UTC-5(-4DT) N43°29.49' W82°37.42' DETROIT HELIPORT REMARKS: Attended dusk-dawn, Apch departure routes 340°-020° and 115°-140°. Helipad H1 perimeter N45°18.29' W85°16.52' **GREEN BAY** L-31B IAP Residential Area

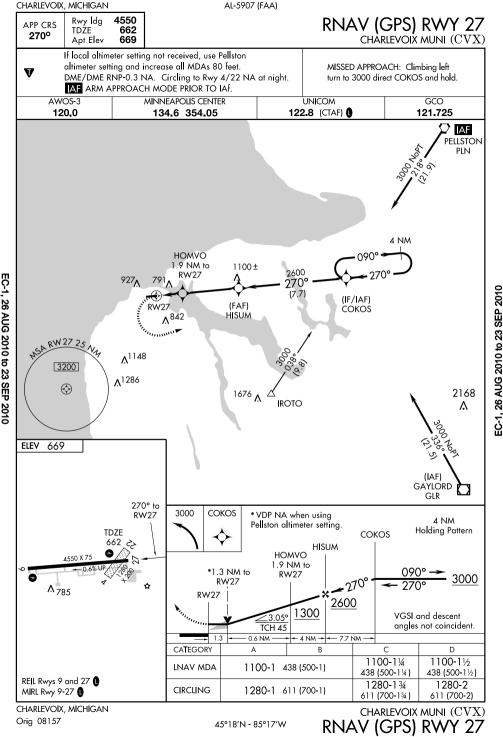
<del>Yını'nın'</del>n 4550 X 75 Quarr

NDB (MHW) 392 CVX N45°18.11′ W85°15.20′ at fld. NOTAM FILE CVX. Unmonitored. NDB unusable byd 15 NM COMM/NAV/WEATHER REMARKS: GCO OTS indef.

Amdt 10 08157

NDB RWY 9





> RWY 02: REIL. PAPI(P4L)-GA 4.0° TCH 40'. Trees. RWY 20: REIL. PAPI(P4L)-GA 4.0° TCH 40'. Pole.

# CHARLOTTE

FITCH H BEACH (FPK) 2 NE UTC-5(-4DT) N42°34.47′ W84°48.69′ B S4 FUEL 100LL NOTAM FILE FPK

S-26

MIRL 0.3% up S

W84°41.85' 216° 9.9 NM to fld. 887/5W.

RWY 14-32: 2318X100 (TURF) RWY 14: Thid dsplcd 575', Trees.

RWY 32: Thid dspicd 189'. Road. AIRPORT REMARKS: Attended 1300Z‡—dusk. Military helicopter ops on

RWY 02-20: H3500X75 (CONC)

and invof arpt, particularly at ngt. Be alert occasional deer on

rwys. Rwy 14-32 CLOSED Dec-Mar and when snow covered. Rwy 14-32 thids and dsplcd thids marked with 3' yellow cones. ACTIVATE MIRL Rwy 02-20; REIL and PAPI Rwy 02 and 20-CTAF. WEATHER DATA SOURCES: AWOS-3 118.075 (517) 543-2288.

COMMUNICATIONS: CTAF/UNICOM 123.0 (R) LANSING APP/DEP CON 118 65 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. LANSING (L) VORTACW 110.8 LAN Chan 45 N42°43.04'

FUEL 100LL, JET A NOTAM FILE SLH

**RWY 10–28:** H4005X75 (ASPH) S–23, D–34, 2D–60



DETROIT

L-28J

IAP

WEND VALLEY (49G) 3 NW NOTAM FILE LAN RWY 18-36: 1800X100 (TURF)

RWY 18: Trees. RWY 36: Trees.

yellow cones. **COMMUNICATIONS: CTAF 122.9** 

S4

CHEBOYGAN

RWY 10: REIL, PAPI(P2L)—GA 4.0° TCH 25', Road. RWY 28: REIL, PAPI(P2L)-GA 4.0° TCH 25', Trees.

CHEBOYGAN CO

RWY 16-34: 1600X75 (TURF) RWY 34: Thid dsplcd 500'.

AIRPORT REMARKS: Attended 1300-2200Z±, 100LL 24 hr self-serve. For Jet A after hrs call 231-627-7921, 231-420-0334. Deer and birds on and invof arpt. Rwy 16-34 CLOSED Dec-Mar and when

snow covered. Rwy 16-34 soft when wet, Rwy 16 rwy and dsplcd thid marked with 3' yellow cones. ACTIVATE MIRL Rwy 10-28, PAPI Rwy 10 and Rwy 28 and REIL Rwy 10 and Rwy 28-122.5. WEATHER DATA SOURCES: AWOS-3 118.175 (231) 627-4671.

COMMUNICATIONS: CTAF/UNICOM 122.8 R MINNEAPOLIS CENTER APP/DEP CON 134.6 RADIO AIDS TO NAVIGATION: NOTAM FILE PLN. PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84' W84°39.85' 083° 6.3 NM to fld. 840/6W. HIWAS

HOFFMAN'S BLACK MOUNTAIN AERODROME (2M7) 11 SE N45°31.92′ W84°18.48′ 677 S4 NOTAM FILE LAN

marked with yellow cones. COMMUNICATIONS: CTAF/UNICOM 122 8

RWY 15-33: 2800X90 (TURF) RWY 15: Thid dsplcd 1200'. Trees.

UTC-5(-4DT)

RWY 33: Thid dsplcd 900'. Trees.

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AIRPORT REMARKS: Attended irregularly. Rwy 15-33 ditch on both sides of rwy. Rwy 15-33 soft when wet. Call 231-627-2418 to confirm rwy conditions. Rwy rough, uneven, tire ruts. Rwy 15-33 edges and dsplcd thlds are

MIRL

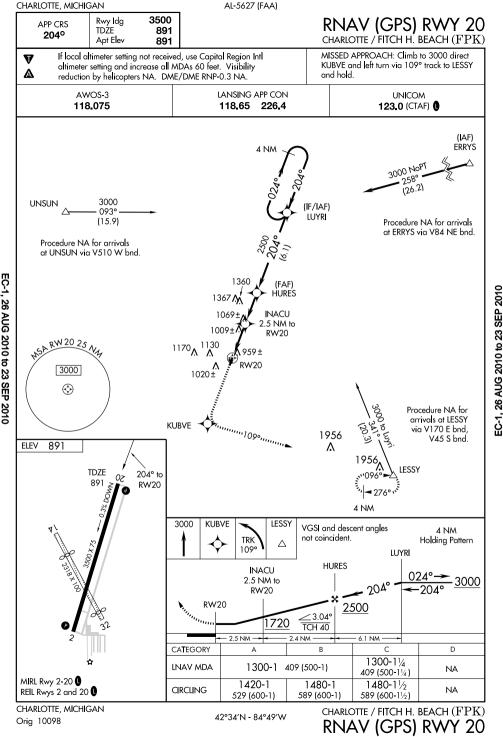
UTC-5(-4DT) N42°34.75′ W84°54.50′ DETROIT AIRPORT REMARKS: Attended irregularly. No snow removal on Rwy 18-36. Arpt CLOSED Dec-Mar and when snow covered. Ultralight activity on and invof arpt. +30' p-line north end rwy. Rwy 18 and dsplcd thld marked with 3' (SLH) 2 W UTC-5(-4DT) N45°39,22′ W84°31,16′ LAKE HURON L-31C IAP 0.3% up W ~ C C

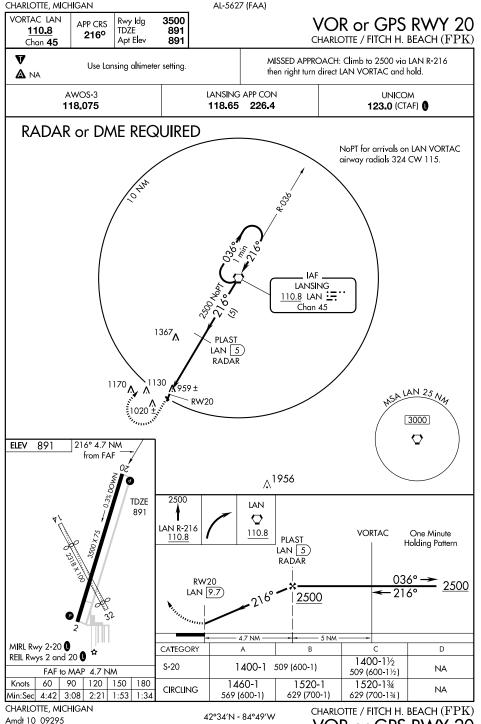
> ଔ୕ୡ LAKE HURON

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> RWY 02: REIL. PAPI(P4L)-GA 4.0° TCH 40'. Trees. RWY 20: REIL. PAPI(P4L)-GA 4.0° TCH 40'. Pole.

# CHARLOTTE

FITCH H BEACH (FPK) 2 NE UTC-5(-4DT) N42°34.47′ W84°48.69′ B S4 FUEL 100LL NOTAM FILE FPK

S-26

MIRL 0.3% up S

W84°41.85' 216° 9.9 NM to fld. 887/5W.

RWY 14-32: 2318X100 (TURF) RWY 14: Thid dsplcd 575', Trees.

RWY 32: Thid dspicd 189'. Road. AIRPORT REMARKS: Attended 1300Z‡—dusk. Military helicopter ops on

RWY 02-20: H3500X75 (CONC)

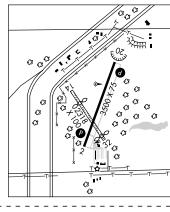
and invof arpt, particularly at ngt. Be alert occasional deer on

rwys. Rwy 14-32 CLOSED Dec-Mar and when snow covered. Rwy 14-32 thids and dsplcd thids marked with 3' yellow cones. ACTIVATE MIRL Rwy 02-20; REIL and PAPI Rwy 02 and 20-CTAF. WEATHER DATA SOURCES: AWOS-3 118.075 (517) 543-2288.

COMMUNICATIONS: CTAF/UNICOM 123.0 (R) LANSING APP/DEP CON 118 65 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. LANSING (L) VORTACW 110.8 LAN Chan 45 N42°43.04'

FUEL 100LL, JET A NOTAM FILE SLH

**RWY 10–28:** H4005X75 (ASPH) S–23, D–34, 2D–60



DETROIT

L-28J

IAP

WEND VALLEY (49G) 3 NW NOTAM FILE LAN RWY 18-36: 1800X100 (TURF)

RWY 18: Trees. RWY 36: Trees.

yellow cones. **COMMUNICATIONS: CTAF 122.9** 

S4

CHEBOYGAN

RWY 10: REIL, PAPI(P2L)—GA 4.0° TCH 25', Road. RWY 28: REIL, PAPI(P2L)-GA 4.0° TCH 25', Trees.

CHEBOYGAN CO

RWY 16-34: 1600X75 (TURF) RWY 34: Thid dsplcd 500'.

AIRPORT REMARKS: Attended 1300-2200Z±, 100LL 24 hr self-serve. For Jet A after hrs call 231-627-7921, 231-420-0334. Deer and birds on and invof arpt. Rwy 16-34 CLOSED Dec-Mar and when

snow covered. Rwy 16-34 soft when wet, Rwy 16 rwy and dsplcd thid marked with 3' yellow cones. ACTIVATE MIRL Rwy 10-28, PAPI Rwy 10 and Rwy 28 and REIL Rwy 10 and Rwy 28-122.5. WEATHER DATA SOURCES: AWOS-3 118.175 (231) 627-4671.

COMMUNICATIONS: CTAF/UNICOM 122.8 R MINNEAPOLIS CENTER APP/DEP CON 134.6 RADIO AIDS TO NAVIGATION: NOTAM FILE PLN. PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84' W84°39.85' 083° 6.3 NM to fld. 840/6W. HIWAS

HOFFMAN'S BLACK MOUNTAIN AERODROME (2M7) 11 SE N45°31.92′ W84°18.48′ 677 S4 NOTAM FILE LAN

marked with yellow cones. COMMUNICATIONS: CTAF/UNICOM 122 8

RWY 15-33: 2800X90 (TURF) RWY 15: Thid dsplcd 1200'. Trees.

UTC-5(-4DT)

RWY 33: Thid dsplcd 900'. Trees.

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AIRPORT REMARKS: Attended irregularly. Rwy 15-33 ditch on both sides of rwy. Rwy 15-33 soft when wet. Call 231-627-2418 to confirm rwy conditions. Rwy rough, uneven, tire ruts. Rwy 15-33 edges and dsplcd thlds are

MIRL

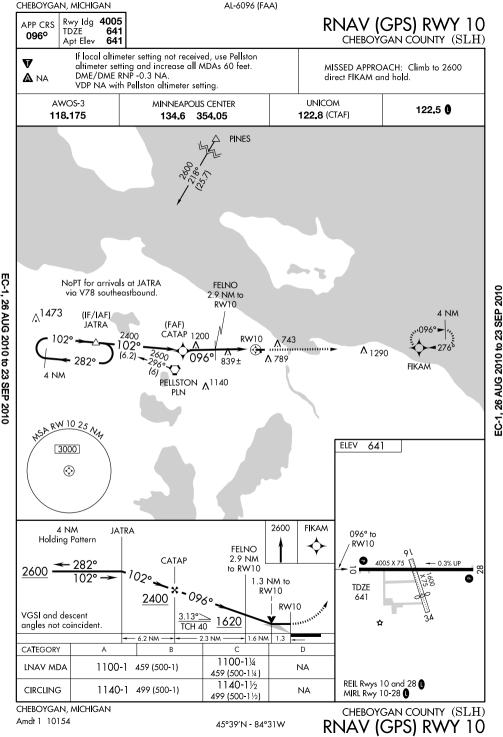
UTC-5(-4DT) N42°34.75′ W84°54.50′ DETROIT AIRPORT REMARKS: Attended irregularly. No snow removal on Rwy 18-36. Arpt CLOSED Dec-Mar and when snow covered. Ultralight activity on and invof arpt. +30' p-line north end rwy. Rwy 18 and dsplcd thld marked with 3' (SLH) 2 W UTC-5(-4DT) N45°39,22′ W84°31,16′ LAKE HURON L-31C IAP 0.3% up W ~ C C

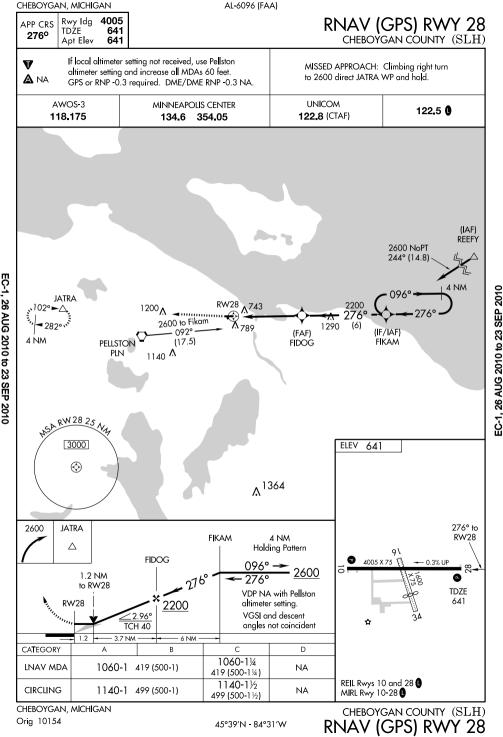
> ଔ୕ୡ LAKE HURON

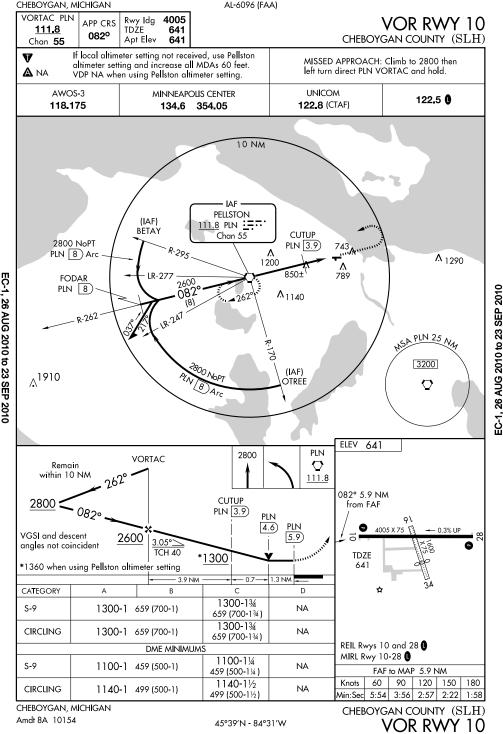
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MICHIGAN 141 CHERRY CAPITAL (See TRAVERSE CITY) CHESANING HOWARD NIXON MEMI (5ØG) UTC-5(-4DT) N43°10.99' W84°08.00' 1 W DETROIT NOTAM FILE LAN RWY 18-36: 2582X150 (TURE) LIRI RWY 18: Thid dspicd 400'. Trees. RWY 36: Thid dsplcd 796'. Trees. RWY 09-27: 2060X150 (TURF) RWY N9. Trees RWY 27: Thid dsplcd 800'. Trees. AIRPORT REMARKS: Attended irregularly. No winter snow removal. Rwy 18-36 marked with 3' vellow cones including dsplcd thids. Rwy 09-27 marked with 3' cones including dsplcd thids. ACTIVATE LIRL Rwy 18-36-CTAF. COMMUNICATIONS: CTAF 122 9 CHIPPEWA CO INTI (See SAULT STE MARIE) CIRCLE II HELIPORT (See CARSONVILLE) CLAM LAKE N44°53 96' W85°14 38' NOTAM FILE ACB **GREEN BAY** I\_31R NDB (MHW) 251 CXK 023° 5.6 NM to Antrim Co. Unmonitored. CLARE MUNI UTC-5(-4DT) N43°50.07' W84°44.41' (48D) 1 E DETROIT 857 R FIIFI 100LL NOTAM FILE LAN L-28J. 31C RWY 04-22: H3500X75 (ASPH) MIRL 0.9% up NE RWY 04: REIL. PAPI(P4L)-GA 4.0° TCH 35'. Trees. RWY 22: REIL. PAPI(P2L)-GA 3.0° TCH 25'. Trees. RWY 09-27: H2500X75 (ASPH) S-20 RWY 09: Trees. RWY 27: Fence. AIRPORT REMARKS: Attended irregularly, 24 hour self serve fuel avbl with credit card. Deer on and invof arpt. Rwy 22 REIL OTS indef. ACTIVATE MIRL Rwv 04-22, Rwv 09-27, REIL Rwv 04 and Rwv 22 and PAPI Rwy 04 and Rwy 22-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8 (R) SAGINAW APP/DEP CON 126.45 (1130-0400Z±) €3 €3 CLEVELAND CENTER APP/DEP CON 127.7 (0400-1130Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. €3 MOUNT PLEASANT (L) VORW/DME 110.6 MOP Chan 43 N43°37.37′ W84°44.24′ 004° 12.7 NM to fld. 752/5W. 2500 X 75 GGGGG

# CLARE CO CLINTON

RWY 18-36: 3800X90 (TURF) RWY 18: Thid dsplcd 600'. Tree.

COMMUNICATIONS: CTAF 122 9

HONEY ACRES

820

(See HARRISON)

(7N4) 1 W

NOTAM FILE LAN

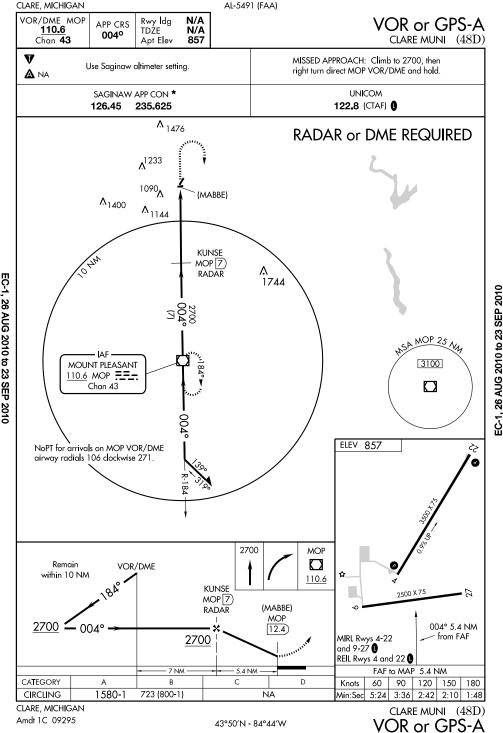
UTC-5(-4DT) N42°04.67' W83°59.16'

RWY 36: Thid dspicd 600', Bldg. thids and dsplcd thids marked with 3' yellow cones.

AIRPORT REMARKS: Attended irregularly. Rwy 36, +18' p-line 430' from thid marked with orange balls. Rwy 18-36

COPTER

DETROIT



TPA-1722(1000) NOTAM FILE LAN

RWY 21: Tree.

CLIO

CAGNEY

722

RWY 14. Tree RWY 32. Trees RWY 18-36: 1802X100 (TURF) RWY 36: Thid dsplcd 358'. Trees.

RWY 18: Thid dsplcd 500'. Trees. AIRPORT REMARKS: Attended continuously, Deer on and invof arpt, Rwy 03-21, Rwy 14-32 and Rwy 18-36 rough.

(51G)

RWY 14-32: 1895X140 (TURF)

S4 RWY 03-21: 1933X100 (TURF) RWY 03: Trees.

Glider ops left and rgt tfc to all rwys. Rwy 32 apch end wet in spring after rain. Rwy 18-36 marked with yellow

cones. Rwy 03-21 and Rwy 14-32 irregularly defined by mowing. Rwys 03-21 and 14-32 local use only. Check NOTAMS for rwy condition winter months-no snow removal.

3 SW UTC-5(-4DT) N43°08.58' W83°47.75'

(OEB) 3 W UTC-5(-4DT) N41°56.01′ W85°03.14′ NOTAM FILE OEB

MIRI

RWY 07: PAPI(P2L)-GA 3.0° TCH 32'. Trees. RWY 25: REIL, PAPI(P2L)—GA 3.0° TCH 40', Road.

RWY 34: Trees.

AIRPORT REMARKS: Attended irregularly. Deer on and invof arpt. 24 hr self svc fuel with major credit card. Rwv 07-25 plowed winter

07-25 and REIL Rwy 25-CTAF, Rwy 16 and dsplcd thid marked

(R) CHICAGO CENTER APP/DEP CON 127.55 (0400-1100Z‡)

RWY 25: Trees.

UTC-5(-4DT) N43°17.87′ W82°36.40′

RWY 36: Thid dsplcd 470'. P-line.

AIRPORT REMARKS: Unattended. Arpt CLOSED Nov-Mar. Winter ops skis only. Rwy 18-36 marked with cones, dsplcd thid marked three 12 inch yellow cones each side. Rwy 07 dsplcd thid marked with 3' boards, Rwy 07-25 thids

(See DETROIT)

### **COWLEY FLD** (See SANDUSKY)

CROSWELL

2 NE

(55G)

780 NOTAM FILE LAN RWY 18-36: 2585X140 (TURF) RWY 18: Thid dspicd 500'. Trees.

RWY 07-25: 2570X75 (TURF) RWY 07: Thid dsplcd 540', P-line.

defined by mowing. COMMUNICATIONS: CTAF/UNICOM 122.8

ARNOLD FLD

# COLEMAN A. YOUNG MUNI

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. LITCHFIELD (L) VOR/DME 111.2 LFD Chan 49 N42°03.75' W84°45.91'

COMMUNICATIONS: CTAF/UNICOM 122.7 LITCHFIELD RCO 122.1R 111.2T (LANSING RADIO) (R) KALAMAZOO APP/DEP CON 121.2 (1100-0400Z±)

with 3' vellow cones. WEATHER DATA SOURCES: AWOS-3 118.125 (517) 279-1810.

months. Call arpt manager at 517-617-7145 for conditions. Admin building access-depress V, then simultaneous III-II, then I. Preferred calm wind Rwy 25. ACTIVATE MIRL Rwy 04-22 and Rwy

RWY 04-22: H3500X75 (ASPH) S-18 RWY 22: Tree. RWY 16-34: 2400X190 (TURF)

FUEL 100LL, JET A RWY 07-25: H5350X75 (ASPH) S-20

S4

BRANCH CO MEML

RWY 04: Tree.

COMMUNICATIONS: CTAF 122.9 COLDWATER

IAP

244° 15 NM to fld. 1040/05W.

DETROIT

Gravel Pit

RWY 16: Thid dsplcd 595', Trees.

Rwy 16-34: 2400 X 190

CHICAGO H-5E, 10F, L-28I

DETROIT

COLDWATER, MICHIGAN WAAS 5350 Rwy Idg APP CRS CH 56506 959 TDŻE 069° 959 Apt Elev W07A

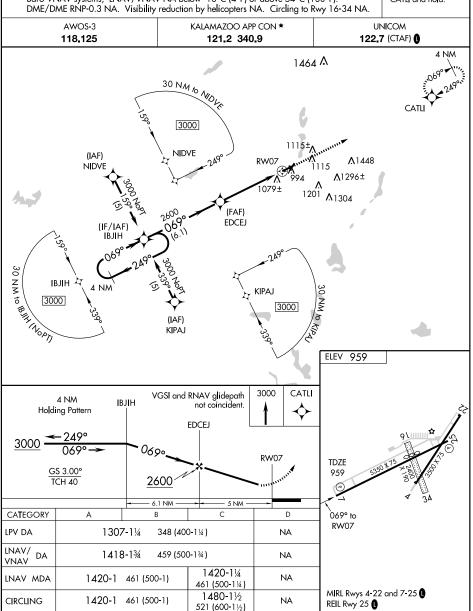
RNAV (GPS) RWY 7 COLDWATER/BRANCH COUNTY MEMORIAL (OEB)

When local altimeter setting not received, use Sturgis altimeter setting and increase all DAs MISSED APPROACH:

48 feet and LPV visibility  $\frac{1}{4}$  mile all Cats and all MDAs 60 feet and LNAV Cat C visibility  $\frac{1}{4}$  mile. Baro-VNAV NA when using Sturgis altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Circling to Rwy 16-34 NA.

Climb to 3000 direct CATLI and hold.

EC-1, 26 AUG 2010 to 23 SEP 2010



COLDWATER, MICHIGAN

COLDWATER / BRANCH COUNTY MEMORIAL (OEB)RNAV (GPS) RWY 7

Amdt 1 10042

41°56'N - 85°03'W

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W25A

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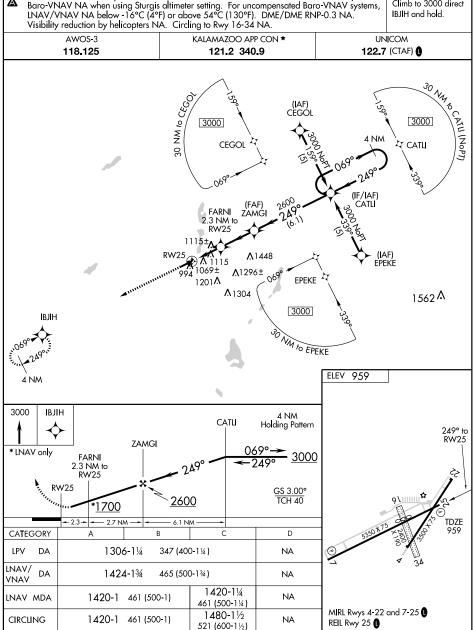
EC-1, 26 AUG 2010 to 23 SEP 2010

AL-5259 (FAA)

## RNAV (GPS) RWY 25 COLDWATER/BRANCH COUNTY MEMORIAL (OEB)

When local altimeter setting not received, use Sturgis altimeter setting and increase all DAs 48 feet and LPV visibility  $\frac{1}{4}$  mile all Cats and all MDAs 60 feet and LNAV Cat C visibility  $\frac{1}{4}$  mile

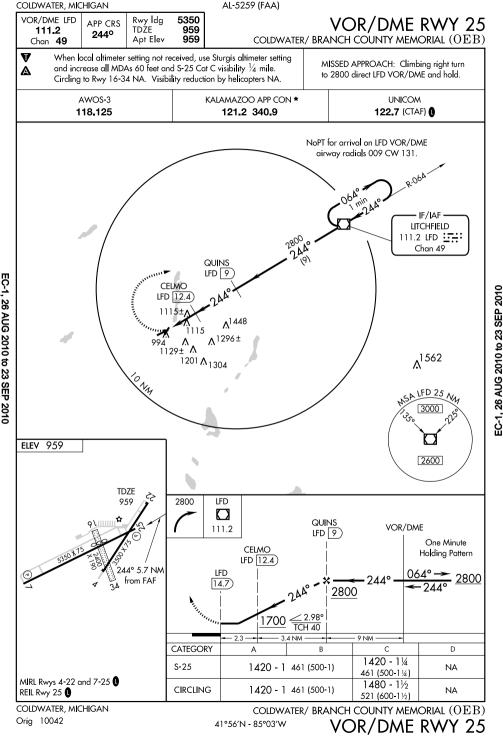
MISSED APPROACH: Climb to 3000 direct IBJIH and hold.

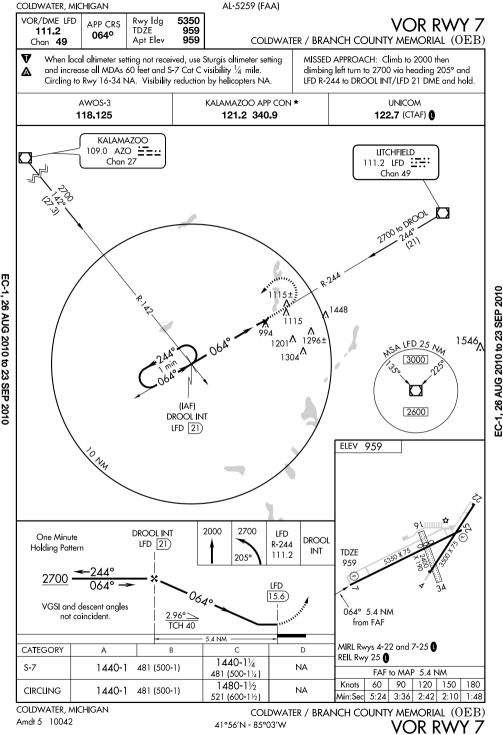


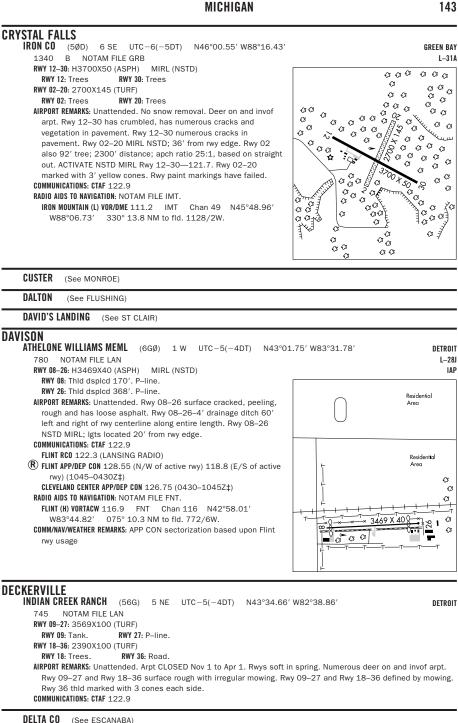
COLDWATER, MICHIGAN Orig 10042

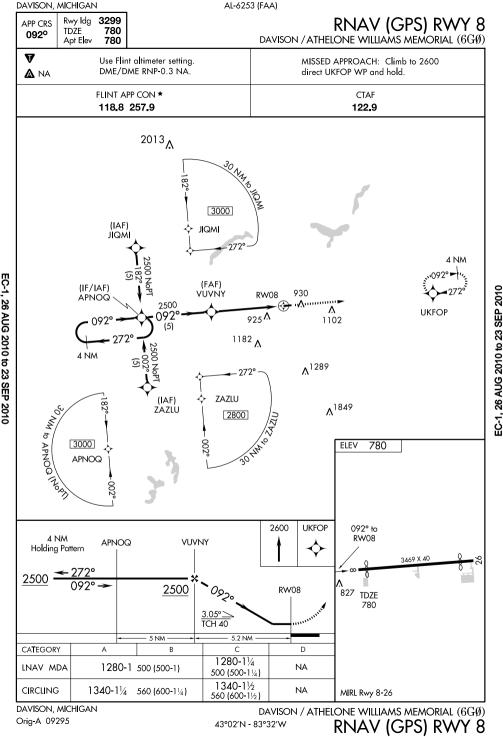
COLDWATER / BRANCH COUNTY MEMORIAL (OEB)RNAV (GPS) RWY 25

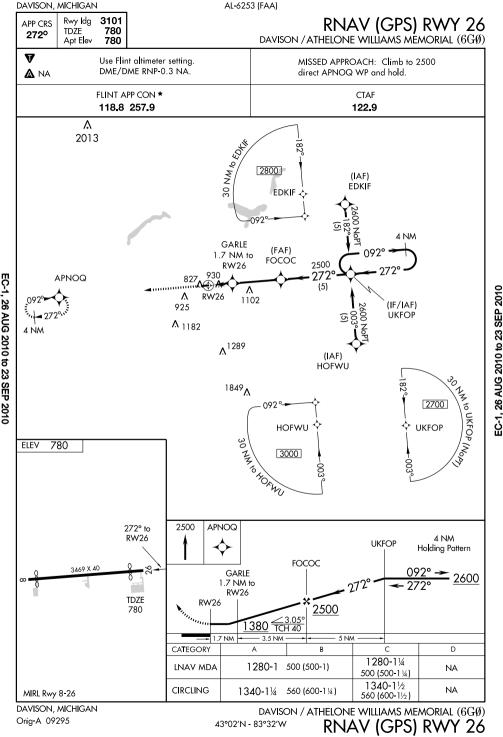
41°56'N - 85°03'W

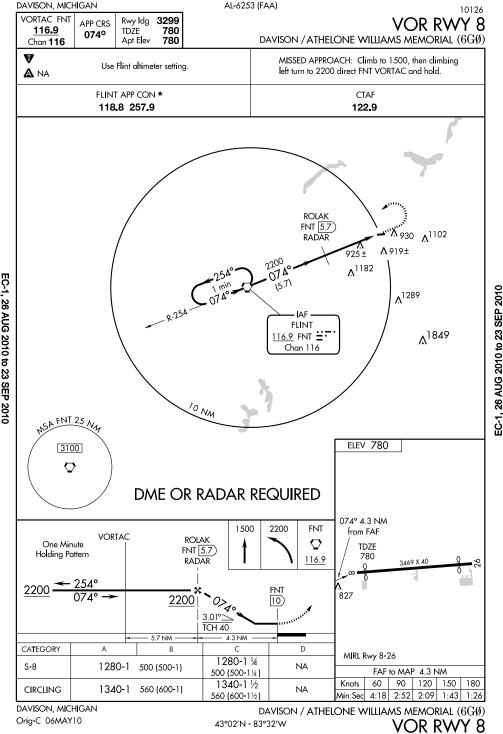


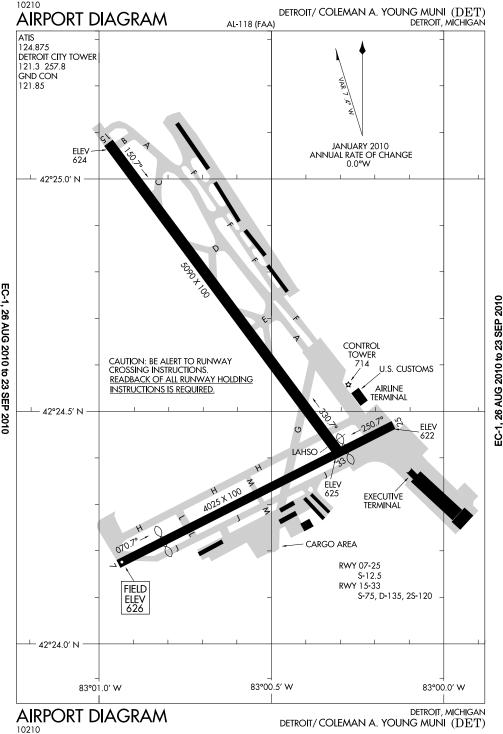












**MICHIGAN** 144

#### DETROIT

# **COLEMAN A. YOUNG MUNI** (DET) 5 NE UTC-5(-4DT) N42°24.55′ W83°00.59′

626 B FUEL 100LL, JET A OX 1, 2, 3 AOE NOTAM FILE DET RWY 15-33: H5090X100 (ASPH - GRVD) S-75, D-135, 2S-120

0303

RWY 15: REIL. VASI(V2R)-GA 3.0° TCH 56', Trees.

RWY 33: REIL, PAPI(P4L)—GA 3.0° TCH 49', Trees.

RWY 07-25: H4025X100 (ASPH) S-12.5

RWY 07: Thid dsplcd 715'. Railroad.

RWY 25: PAPI(P4L)—GA 4.0° TCH 40'. Thid dspicd 716'. Pole.

LAND AND HOLD SHORT OPERATIONS

LANDING HOLD SHORT POINT

DIST AVRI RWY 15 07-25 4900

AIRPORT REMARKS: Attended continuously. Birds on and invof arpt. Unlighted twr 275' AGL 1 mile WSW. Loading/Unloading Class A explosives or poisons not permitted. PPR for Class B and C

explosives. Due to noise abatement requirements jets and acft over 12.500 lbs GWT must use Rwv 15-33 except when winds exceed 25 knots, then Rwy 07-25 avbl. Twy D1 clsd indef. Ldg fee for acft 6000 lbs or more. Rwy 33 REIL OTS indef. HIRL Rwy 15-33

step five OTS indef. Rwy 15 VASI OTS indef. Flight Notification WEATHER DATA SOURCES: ASOS (313) 371-9696.

Rwy 33. LOM CARGL NDB.

COMMUNICATIONS: ATIS 124 875 IINICOM 122 95 RCO 122.2 122.55 (LANSING RADIO)

(R) DETROIT APP/DEP CON 126.85

Service (ADCUS) avbl.

TOWER 121 3 GND CON 121 85

ILS 111.3

RADIO AIDS TO NAVIGATION: NOTAM FILE YOG.

WINDSOR ONT VOR/DME 113.8 YOG Chan 85 N42°14.99' W82°49.73' 326° 12.5 NM to fld. 620/6W.

I–VOM

MADDS NDB (LOM) 338 DE N42°29.69′ W83°05.60′ 149°6.3 NM to fld. Unmonitored. CARGL NDB (MHW/LOM) 230 VO N42°21.38′ W82°57.26′ 327° 4 NM to fld. NOTAM FILE DET.

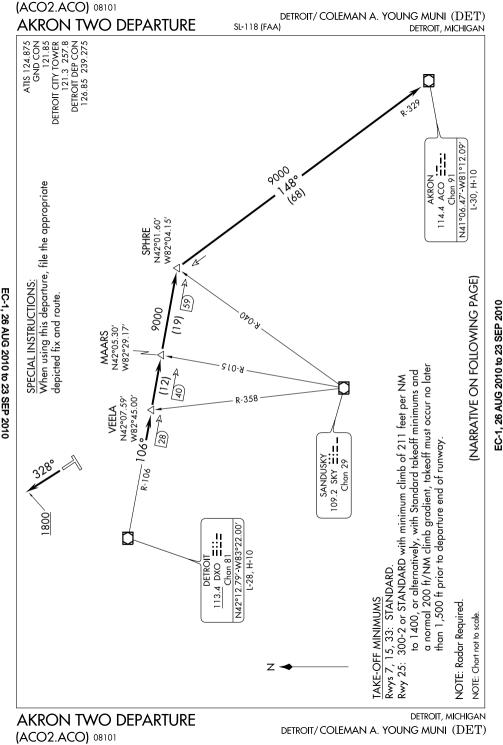
ILS 111.3 I-DET Rwv 15. LOM MADDS NDB.

IAP. AD 

DETROIT

COPTER

H-10G, L-28J, A



# AKRON TWO DEPARTURE



EC-1, 26 AUG 2010 to 23 SEP 2010

#### DEPARTURE ROUTE DESCRIPTION

<u>TAKE-OFF RWY 33</u>: Climb heading 328° to 1800 before turning, expect radar vectors, thence. . . .

<u>TAKE-OFF ALL OTHER RUNWAYS:</u> Climb via assigned heading for radar vectors, thence. . . .

. . . . to intercept DXO VOR/DME R-106 to SPHRE INT, then via ACO R-329 to ACO VOR/DME. Maintain 3000 feet, expect clearance to filed altitude/flight level ten (10) minutes after departure.

#### TAKE-OFF OBSTACLES

Rwy 7: Multiple Trees beginning 232' from DER, 20' left of centerline, up to 60' AGL/687' MSL. Multiple Trees beginning 283' from DER, 44' right of centerline, up to 56' AGL/680' MSL.

Stack 533' from DER, 66' right of centerline, 50' AGL/671' MSL.

OL on Stack on Bldg 566' from DER, 18' right of centerline, 50' AGL/671' MSL. OL on Floodlight 622' from DER, 104' left of centerline, 41' AGL/668' MSL.

Light Standard 149' from DER, 138' left of centerline, 37' AGL/654' MSL. Light Standard 227' from DER, 105' right of centerline, 33' AGL/654' MSL.

Antenna on Bldg 936' from DER, 84' right of centerline, 33 AGL/634' MSL. OL on Floodlight 909' from DER, 96' right of centerline, 41' AGL/668' MSL.

Pole 466' from DER, 198' right of centerline, 30' AGL/654' MSL.

OL on Pole 132' from DER, on centerline, 16' AGL/637' MSL.

Rwy 15: Multiple Trees beginning 589' from DER, 221' left of centerline, up to 69' AGL/683' MSL. Multiple Trees beginning 299' from DER, 289' right of centerline, up to 52' AGL/679' MSL. Ant on APBN 662' from DER, 667' left of centerline, 81' AGL/695' MSL. Pipe on Bldg 783' from DER, 597' left of centerline, 62' AGL/676' MSL. OL on Bldg 1473' from DER, 556' right of centerline, 68' AGL/692' MSL. Tower 3,376' from DER, 1,118' right of centerline, 103' AGL/723' MSL.

Antenna on Bldg 803' from DER, 522' right of centerline, 103 AGL/723' MSL.
Building 3,749' from DER, 569' left of centerline, 114' AGL/723' MSL.
Floodlight on Bldg 1,611' from DER, 657' left of centerline, 53' AGL/667' MSL.

Rod on OL Building 450' from DER, 317' left of centerline, 20' AGL/637' MSL.

Rwy 25: Tower 2,828' from DER, 1,225' left of centerline, 141' AGL/770' MSL.

Multiple Trees beginning 909' from DER, 133' left of centerline, up to 76' AGL/703' MSL.

Multiple Trees beginning 334' from DER, 132' right of centerline, 58' AGL/685' MSL.

OL on Building 48' from DER, 240' left of centerline, 41' AGL/662' MSL.

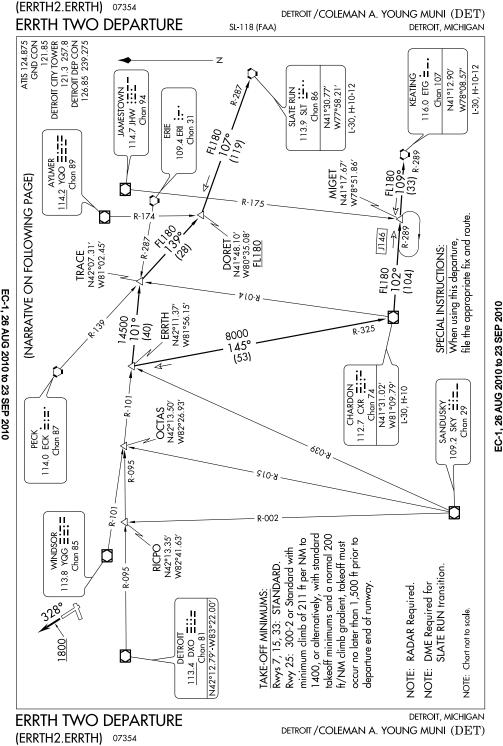
Railroad 1' from DER, 126' left of centerline, 29' AGL/650' MSL.
OL on Stack 454' from DER, 45' left of centerline, 35' AGL/659' MSL.

Railroad 190' from DER, 40' left of centerline, 35' AGL/659' MSL.

OL Stack on Bldg 949' from DER, 44' left of centerline, 41' AGL/668' MSL.

Stack 958' from DER, 12' left of centerline, 41' AGL/668' MSL.
Light Standard 701' from DER, 145' right of centerline, 26' AGL/653' MSL.
Stack 9,474' from DER, 2,415' left of centerline, 241' AGL/872' MSL.

Rwy 33: Multiple Trees beginning 113' from DER, 118' left of centerline, up to 73' AGL/694' MSL. Multiple Trees beginning 572' from DER, 84' right of centerline, up to 92' AGL/709' MSL. Flag Pole 963' from DER, 379' left of centerline, 28' AGL/658' MSL.



# ERRTH TWO DEPARTURE



#### DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 33: Climb heading 328° to 1800 expect radar vectors to join the assigned SID. Maintain 3000 feet, expect clearance to filed altitude/flight level ten (10) minutes after departure.

TAKE-OFF ALL OTHER RUNWAYS: Climb via assigned heading for radar vectors to join the assigned SID. Maintain 3000 feet, expect clearance to filed altitude/ flight level ten (10) minutes after departure.

CHARDON TRANSITION (ERRTH2.CXR): From over ERRTH INT via CXR R-325 to CXR VOR/DME.

KEATING TRANSITION (ERRTH2.ETG): From over ERRTH INT via CXR R-325 to CXR VOR/DME, then via CXR R-102 and ETG R-289 to MIGET INT, then via ETG R-289 to ETG VORTAC.

SLATE RUN TRANSITION (ERRTH2.SLT): (DME Required) From over ERRTH INT via YQG R-101 to TRACE INT, then via ECK R-139 to DORET INT, then via SLT R-287 to SLT VORTAC.

#### TAKE-OFF OBSTACLES:

Rwy 7: Multiple trees beginning 232' from DER, 20' left of centerline, up to 60' AGL/687' MSL. Multiple trees beginning 283' from DER, 44' right of centerline, up to 56' AGL/680' MSL.

Stack 533' from DER, 66' right of centerline, 50' AGL/671' MSL.

OL on stack on Bldg 566' from DER, 18' right of centerline, 50' AGL/671' MSL.

OL on floodlight 622' from DER, 104' left of centerline, 41' AGL/668' MSL.

Light standard 149' from DER, 138' left of centerline, 37' AGL/654' MSL.

Light standard 227' from DER, 105' right of centerline, 33' AGL/654' MSL.

Antenna on bldg 936' from DER, 84' right of centerline, 43' AGL/670' MSL. OL on floodlight 909' from DER, 96' right of centerline, 41' AGL/668' MSL.

Pole 466' from DER, 198' right of centerline, 30' AGL/654' MSL.

OL on pole 132' from DER, on centerline, 16' AGL/637' MSL. Rwy 15: Multiple trees beginning 589' from DER, 221' left of centerline, up to 69' AGL/683' MSL.

Multiple trees beginning 299' from DER, 289' right of centerline, up to 52' AGL/679' MSL.

Ant on APBN 662' from DER, 667' left of centerline, 81' AGL/695' MSL.

Pipe on OL bldg 783' from DER, 597' left of centerline, 62' AGL/676' MSL. OL on bldg 1,473' from DER, 556' right of centerline, 68' AGL/692' MSL.

Tower 3,376' from DER, 1,118' right of centerline, 103' AGL/723' MSL

Antenna on bldg 803' from DER, 522' right of centerline, 35' AGL/656' MSL.

Building 3,749' from DER, 569' left of centerline, 114' AGL/723' MSL.

Floodlight on bldg 1,611' from DER, 657' left of centerline, 53' AGL/667' MSL. Rod on OL building 450' from DER, 317' left of centerline, 20' AGL/637' MSL.

Rwy 25: Tower 2,828' from DER, 1,225' left of centerline, 141' AGL/770' MSL.

Multiple trees beginning 909' from DER, 133' left of centerline, up to 76' AGL/703' MSL.

Multiple trees beginning 334' from DER, 132' right of centerline, 58' AGL/685' MSL.

OL on building 48' from DER, 240' left of centerline, 41' AGL/662' MSL. Railroad 1' from DER, 126' left of centerline, 29' AGL/650' MSL.

OL on stack 454' from DER, 45' left of centerline, 35' AGL/659' MSL.

Railroad 190' from DER, 40' left of centerline, 29' AGL/650' MSL.

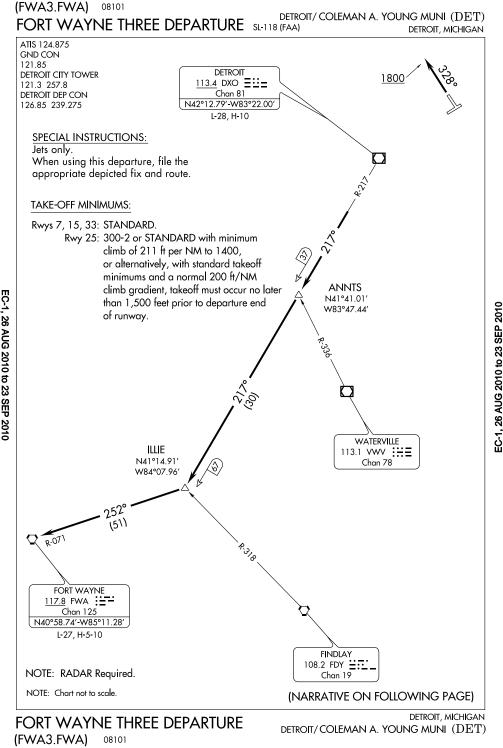
OL stack on Bldg 949' from DER, 44' left of centerline, 41' AGL/668' MSL. Stack 958' from DER, 12' left of centerline, 41' AGL/668' MSL.

Light standard 701' from DER, 145' right of centerline, 26' AGL/653' MSL.

Stack 9,474' from DER, 2,415' left of centerline, 241' AGL/872' MSL. Rwy 33: Multiple trees beginning 113' from DER, 118' left of centerline, up to 73' AGL/694' MSL. Multiple trees beginning 572' from DER, 84' right of centerline, up to 92' AGL/709' MSL.

Flag pole 963' from DER, 379' left of centerline, 28' AGL/658' MSL.

(ERRTH2.ERRTH)



#### DETROIT/ COLEMAN A. YOUNG MUNI (DET) FORT WAYNE THREE DEPARTURE SL-118 (FAA) DETROIT, MICHIGAN

V

EC-1, 26 AUG 2010 to 23 SEP 2010

#### DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 33: Climb via heading 328° to 1800 before turning, expect radar vectors, thence. . . .

TAKE-OFF ALL OTHER RUNWAYS: Climb via assigned heading for radar vectors, thence. . . .

. . . .to intercept DXO VOR/DME R-217 to ILLIE INT, then via FWA R-071 to FWA VORTAC. Maintain 3000, expect clearance to filed flight level ten (10) minutes after departure.

#### TAKE-OFF OBSTACLES:

Rwy 7: Multiple trees beginning 232' from DER, 20' left of centerline, up to 60' AGL/687' MSL. Multiple trees beginning 283' from DER, 44' right of centerline, up to 56' AGL/680' MSL. Stack 533' from DER, 66' right of centerline, 50' AGL/671' MSL. OL on stack on bldg 566' from DER, 18' right of centerline, 50' AGL/671' MSL. OL on floodlight 622' from DER, 104' left of centerline, 41' AGL/668' MSL. Light standard 149' from DER, 138' left of centerline, 37' AGL/654' MSL. Light standard 227' from DER, 105' right of centerline, 33' AGL/654' MSL.

Multiple trees beginning 299' from DER, 289' right of centerline, up to 52' AGL/679' MSL.

OL floodlight 909' from DER, 96' right of centerline, 41' AGL/668' MSL. Pole 466' from DER, 198' right of centerline, 30' AGL/654' MSL.

OL on pole 132' from DER, on centerline, 16' AGL/637' MSL. Multiple trees beginning 589' from DER, 221' left of centerline up to 69' AGL/683' MSL. Rwy 15:

Ant on APBN 662' from DER, 667' left of centerline, 81' AGL/695' MSL. Pipe on OL Bldg 783' from DER, 597' left of centerline, 62' AGL/676' MSL. OL on bldg 1,473' from DER, 556' right of centerline, 68' AGL/692' MSL.

Antenna on bldg 936' from DER, 84' right of centerline, 43' AGL/670' MSL.

Tower 3,376' from DER, 1,118' right of centerline, 103' AGL/723' MSL. Antenna on Bldg 803' from DER, 522' right of centerline, 35' AGL/656' MSL. Building 3,749' from DER, 569' left of centerline, 114' AGL/723' MSL.

Rod on OL building 450' from DER, 317' left of centerline, 20' AGL/637' MSL. Tower 2,828' from DER, 1,225' left of centerline, 141' AGL/770' MSL. Rwy 25:

Multiple trees beginning 909' from DER, 133' left of centerline, up to 76' AGL/703' MSL. Multiple trees beginning 334' from DER, 132' right of centerline, 58' AGL/685' MSL. OL on building 48' from DER, 240' left of centerline, 41' AGL/662' MSL.

Floodlight on Bldg 1,611' from DER, 657' left of centerline, 53' AGL/667' MSL.

Railroad 1' from DER, 126' left of centerline, 29' AGL/650' MSL.

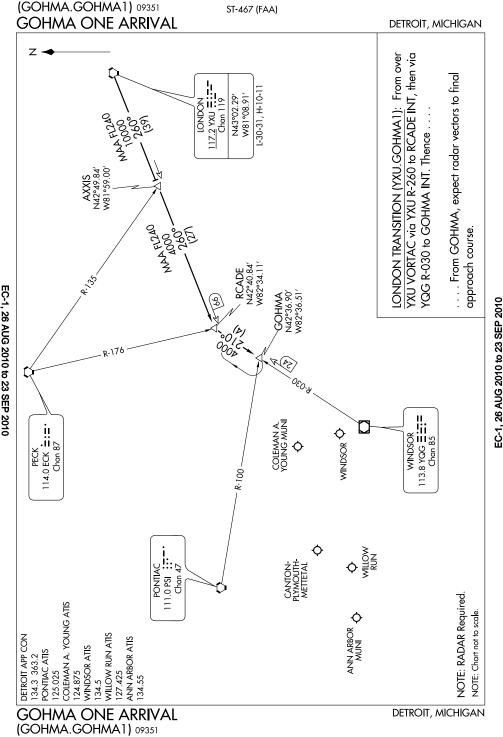
OL on stack 454' from DER, 45' left of centerline, 35' AGL/659' MSL. Railroad 190' from DER, 40' left of centerline, 29' AGL/650' MSL.

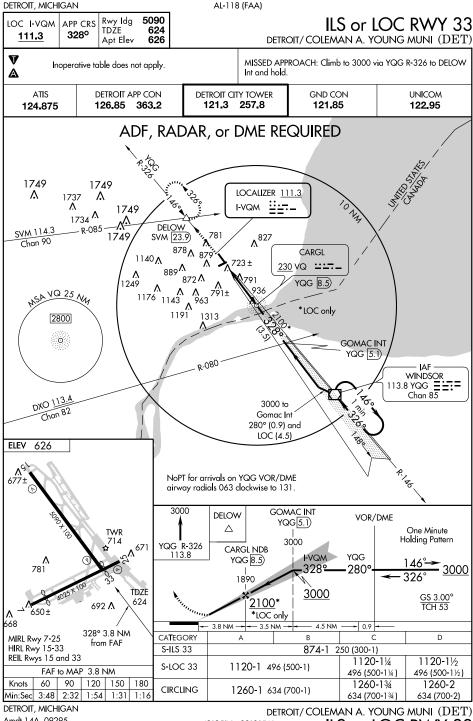
OL stack on Bldg 949' from DER, 44' left of centerline, 41' AGL/668' MSL. Stack 958' from DER, 12' left of centerline, 41' AGL/668' MSL. Light standard 701' from DER, 145' right of centerline, 26' AGL/653' MSL.

Stack 9,474' from DER, 2,415' left of centerline, 241' AGL/872' MSL. Multiple trees beginning 113' from DER, 118' left of centerline, up to 73' AGL/694' MSL. Rwy 33:

Multiple trees beginning 572' from DER, 84' right of centerline, up to 92' AGL/709' MSL. Flag pole 963' from DER, 379' left of centerline, 28' AGL/658' MSL.

DETROIT, MICHIGAN

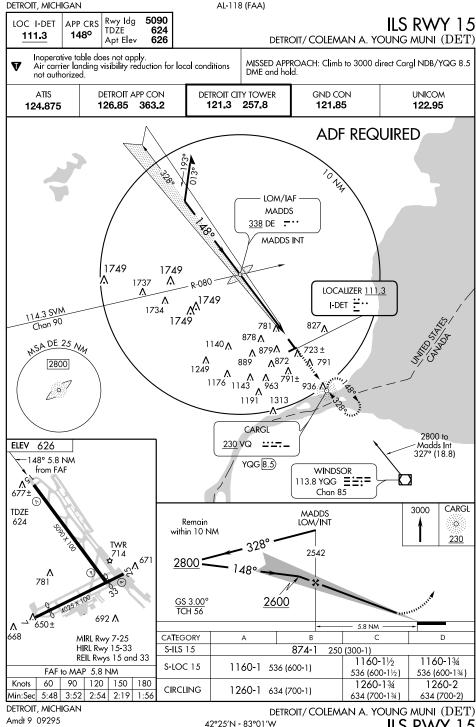




Amdt 14A 09295

EC-1, 26 AUG 2010 to 23 SEP 2010

ILS or LOC RW



ILS RWY 15

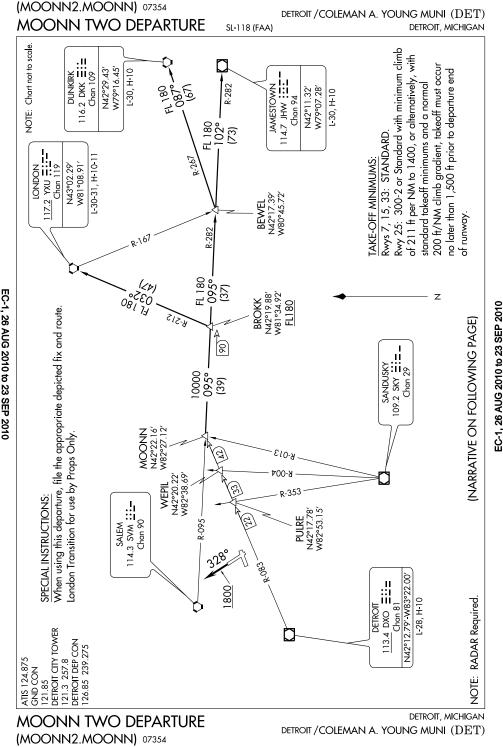
NOTE: Chart not to scale.

EC-1, 26 AUG 2010 to 23 SEP 2010

#### ARRIVAL DETROIT, MICHIGAN 118.95 363.2 PONTIAC ATIS 125.025 124.875 WINDSOR ATIS 134.5 SELFRIDGE ATIS 125.325 270.1 127.425 ANN ARBOR ATIS 134.55 NOTE: RADAR REQUIRED DETROIT APP CON COLEMAN A. YOUNG ATIS WILLOW RUN ATIS JOHNSTOWN L-29, H-10-12 W78°50.05′ N40°19.00′ Chan 77 115.5 PSB :::::. Chan 102 PHILPSBURG W77°59.56′ N40°54.98′ L-30, H-10-12 MAA FL450 FL180 289 (66) 41°0°, Z 114.4 ACO ===== 112.7 CXR ==== W81°12.09′ W80°24.97′ N41°06.47" N41°11.53' AKRON Chan 91 CHARDON HAGUD L-30, H-10 19 Chan 74 117.1 AIR 🛅 R-102 Chan 118 BELLAIRE Turboprops: Expect clearance to cross at 8,000'. Furbojets: Expect clearance to cross at 10,000′ 8 EC-1, 26 AUG 2010 to 23 SEP 2010 PLANNING INFORMATION VERTICAL NAVIGATION W81°34.66′ N41°18.34′ N41°50.55′-W82°37.38′ CANCR . . . . Aircraft Landing Coleman A. Young Muni, Oakland County Intl, Windsor, Oakland/Troy, Southwest, Livingston County: From over LLEEO INT via 330° heading. Expect radar vectors to ILEEO AKRON TRANSITION (ACO.LLEEO2): From over ACO VOR/DME via ACO R-309 and DXO JOHNSTOWN TRANSITION (JST. LLEEQ2): From over JST VORTAC via JST R-313 to HAGUD 00 INT, then via DJB R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. DRYER TRANSITION (DJB.LLEEO2): From over DJB VOR/DME via DJB R-330 to LLEEO INT. 27 PHILPSBURG TRANSITION (PSB.LLEEO2): From over PSB VORTAC via PSB R-289 and DJB . . . Aircraft Landing Willow Run, Ann Arbor Muni, Canton-Plymouth-Mettetal, Oakland 9 W82°12.83' N41°38.07′ R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. Thence . . . . Selfridge ANGB: From over LLEEO INT via 360° heading. Expect radar vectors to final PEJAE R-102-10000 ARRIVAL ROUTE DESCRIPTION SELFRIDGE ANGB COLEMAN A. YOUNG MUNI WINDSOR -8-065 113.6 DJB ::: W82°09.72′ L-30, H-10 N41°21.48′ Chan 83 DRYER OAKLAND/ TROY R-130 to LLEEO INT. Thence OAKIAND COUNTY NTL 113.4 DXO =::= CANTON PLYMOUTH **♦** METTETAL WILLOW DETROIT Z N Chan 81 OAKLAND SOUTHWEST 🔷 13.1 vwv :: I final approach course. WATERVILLE ANN ARBOR 🗘 Chan 78 LIMINGSTON Thence. Thence.

ARRIVAL

approach course.



V

MOONN TWO DEPARTURE

## DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 33: Climb heading 328° to 1800' before turning expect radar vectors to join the assigned SID. Maintain 3000 feet, expect clearance to filed altitude/flight level ten (10) minutes after departure.

TAKE-OFF ALL OTHER RUNWAYS: Climb via assigned heading for radar vectors to join the assigned SID. Maintain 3000 feet, expect clearance to filed altitude/flight level ten (10) minutes after departure.

DUNKIRK TRANSITION (MOONN2.DKK): From over MOONN INT via SVM R-095 to BROKK INT, then via SVM R-095 and JHW R-282 to BEWEL INT, then via DKK R-267 to DKK VORTAC.

JAMESTOWN TRANSITION (MOONN2.JHW): From over MOONN INT via SVM R-095 to BROKK INT, then via SVM R-095 and JHW R-282 to BEWEL INT, then via JHW R-282 to JHW VOR/DME.

LONDON TRANSITION (MOONN2.YXU): From over MOONN INT via SVM R-095 to BROKK INT, then via YXU R-212 to YXU VORTAC.

Rwy 7: Multiple trees beginning 232' from DER, 20' left of centerline, up to 60' AGL/687' MSL.

## TAKE-OFF OBSTACLES

Multiple trees beginning 283' from DER, 44' right of centerline, up to 56' AGL/680' MSL. Stack 533' from DER, 66' right of centerline, 50' AGL/671' MSL. OL on stack on Bldg 566' from DER, 18' right of centerline, 50' AGL/671' MSL. OL on floodlight 622' from DER, 104' left of centerline, 41' AGL/668' MSL. Light standard 149' from DER, 138' left of centerline, 37' AGL/654' MSL. Light standard 227' from DER, 105 right of centerline, 33' AGL/654' MSL. Antenna on Bldg 936' from DER, 84' right of centerline, 43' AGL/670' MSL. OL floodlight 909' from DER, 96' right of centerline, 41' AGL/668' MSL.

Pole 466' from DER, 198' right of centerline, 30' AGL/654' MSL.

OL on pole 132' from DER, on centerline, 16' AGL/637' MSL. Rwy 15: Multiple trees beginning 589' from DER, 221' left of centerline up to 69' AGL/683' MSL. Multiple trees beginning 299' from DER, 289' right of centerline, up to 52' AGL/679' MSL. Ant on APBN 662' from DER, 667' left of centerline, 81' AGL/695' MSL.

Pipe on OL Bldg 783' from DER, 597' left of centerline, 62' AGL/676' MSL. OL on Bldg 1,473' from DER, 556' right of centerline, 68' AGL/692' MSL. Tower 3,376' from DER, 1,118' right of centerline, 103' AGL/723' MSL.

Antenna on Bldg 803' from DER, 522' right of centerline, 35' AGL/656' MSL. Building 3,749' from DER, 569' left of centerline, 114' AGL/723' MSL.

Floodlight on Bldg 1,611' from DER 657' left of centerline, 53' AGL/667' MSL. Rod on OL building 450' from DER, 317' left of centerline, 20' AGL/637' MSL.

Rwy 25: Tower 2,828' from DER, 1,225' left of centerline, 141' AGL/770' MSL. Multiple trees beginning 909' from DER, 133' left of centerline, up to 76' AGL/703' MSL.

OL on building 48' from DER, 240' left of centerline, 41' AGL/662' MSL. Railroad 1' from DER, 126' left of centerline, 29' AGL/650' MSL.

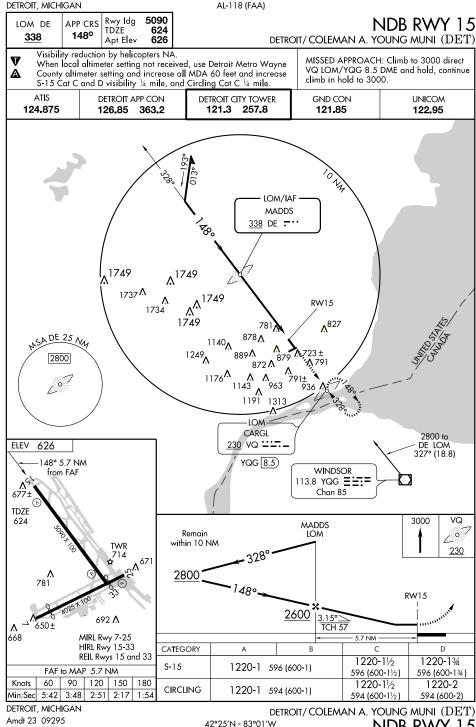
Multiple trees beginning 334' from DER, 132' right of centerline, 58' AGL/685' MSL.

OL on stack 454' from DER, 45' left of centerline, 35' AGL/659' MSL. Railroad 190' from DER, 40' left of centerline, 29' AGL/650' MSL.

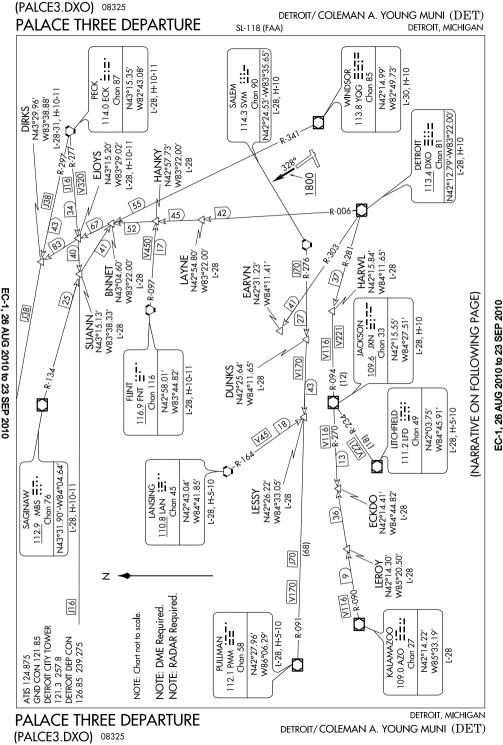
OL stack on Bldg 949' from DER, 44' left of centerline, 41' AGL/668' MSL. Stack 958' from DER, 12' left of centerline, 41' AGL/668' MSL.

Light standard 701' from DER, 145' right of centerline, 26' AGL/653' MSL. Stack 9,474 from DER, 2,415' left of centerline, 241' AGL/872' MSL.

Rwy 33: Multiple trees beginning 113' from DER, 118' left of centerline, up to 73' AGL/694' MSL. Multiple trees beginning 572' from DER, 84' right of centerline, up to 92' AGL/709' MSL. Flag pole 963' from DER, 379' left of centerline, 28' AGL/658' MSL.



NDB RW



## PALACE THREE DEPARTURE

#### DEPARTURE ROUTE DESCRIPTION

#### TAKE-OFF MINIMUMS:

Rwy 7, 15, 33: STANDARD.

Rwy 25: 300-2 or STANDARD with minimum climb of 211 ft per NM to 1400, or alternatively, with standard takeoff minimums and a normal 200 ft/NM climb gradient, takeoff must occur no later than 1,500 ft prior to departure end of runway.

#### SPECIAL INSTRUCTIONS:

When using this departure, file the appropriate depicted departure fix and route. Aircraft landing/overflying Lansing (LAN) or overflying Flint (FNT) at 10,000 feet or below, file via EARVN. Aircraft landing Flint (FNT) at 10,000 feet or below, file via LAYNE. Aircraft over HARWL must file FL220 and below.

TAKE-OFF RWY 33: Climb heading 328° to 1800 before turning, expect radar vectors to join assigned SID. Maintain 3000 feet, expect clearance to filed altitude/flight level ten (10) minutes after departure.

TAKE-OFF ALL OTHER RUNWAYS: Climb via assigned heading for radar

vectors to join the assigned SID. Maintain 3000 feet, expect clearance to filed altitude/flight level ten (10) minutes after departure.

#### TAKE-OFF OBSTACLES:

Rwy 7: Multiple trees beginning 232' from DER, 20' left of centerline, up to 60' AGL/687' MSL. Multiple trees beginning 283' from DER, 44' right of centerline, up to 56' AGL/680' MSL. Stack 533' from DER, 66' right of centerline, 50' AGL/671' MSL. OL on stack on Bldg 566' from DER, 18' right of centerline, 50' AGL/671' MSL. OL on floodlight 622' from DER, 104' left of centerline, 41' AGL/668' MSL. Light standard 149' from DER, 138' left of centerline, 37' AGL/654' MSL. Light standard 227' from DER, 105' right of centerline, 33' AGL/654' MSL. Antenna on Bldg 936' from DER, 84' right of centerline, 43' AGL/670' MSL. OL floodlight 909' from DER, 96' right of centerline, 41' AGL/668' MSL. Pole 466' from DER, 198' right of centerline, 30' AGL/654' MSL.

OL on pole 132' from DER, on centerline, 16' AGL/637' MSL.

Rwy 15: Multiple trees beginning 589' from DER, 221' left of centerline up to 69' AGL/683' MSL.

Multiple trees beginning 299' from DER, 289' right of centerline, up to 52' AGL/679' MSL.

Ant on APBN 662' from DER, 667' left of centerline, 81' AGL/695' MSL.

Pipe on OL Bldg 783' from DER, 597' left of centerline, 62' AGL/676' MSL.

OL on Bldg 1,473' from DER, 597' left of centerline, 62' AGL/676' MSL. Tower 3,376' from DER, 1,118' right of centerline, 68' AGL/692' MSL.

Antenna on Bldg 803' from DER, 522' right of centerline, 35' AGL/656' MSL. Building 3,749' from DER, 569' left of centerline, 114' AGL/723' MSL.

Floodlight on Bldg 1,611' from DER, 657' left of centerline, 53' AGL/667' MSL. Rod on OL building 450' from DER, 317' left of centerline, 20' AGL/637' MSL. Rwy 25: Tower 2,828' from DER, 1,225' left of centerline, 141' AGL/770' MSL.

Multiple trees beginning 909' from DER, 133' left of centerline, up to 76' AGL/703' MSL.

Multiple trees beginning 334' from DER, 132' right of centerline, 58' AGL/685' MSL.

OL on building 48' from DER, 240' left of centerline, 41' AGL/662' MSL. Railroad 1' from DER, 126' left of centerline, 29' AGL/650' MSL.

OL on stack 454' from DER, 45' left of centerline, 35' AGL/659' MSL. Railroad 190' from DER, 40' left of centerline, 29' AGL/650' MSL.

OL stack on Bldg 949' from DER, 44' left of centerline, 41' AGL/668' MSL. Stack 958' from DER, 12' left of centerline, 41' AGL/668' MSL.

Light standard 701' from DER, 145' right of centerline, 26' AGL/653' MSL. Stack 9,474' from DER, 2,415' left of centerline, 241' AGL/872' MSL.

Rwy 33: Multiple trees beginning 113' from DER, 118' left of centerline, up to 73' AGL/694' MSL.

Multiple trees beginning 572' from DER, 84' right of centerline, up to 92' AGL/709' MSL.

Flag pole 963' from DER, 379' left of centerline, 28' AGL/658' MSL.

(RID4.RID) 09015 DETROIT/ COLEMAN A. YOUNG MUNI (DET) RICHMOND FOUR DEPARTURE SL-118 (FAA) DETROIT, MICHIGAN ATIS 124.875 **GND CON** 1800 121.85 **DETROIT CITY TOWER** 121.3 257.8 DETROIT DEP CON 126.85 239.275 **DETROIT** 113.4 DXO **Ξ**∷Ξ Chan 81 N42°12.79′-W83°22.00′ L-28, H-10 **CAVVS** N41°41.04′ **SANDUSKY** W83°34.14 109.2 SKY **:=** Chan 29 L-28 EC-1, 26 AUG 2010 to 23 SEP 2010 WATERVILLE 113.1 VWV :∷≡ Chan 78 N41°27.09′ W83°38.32' L-28, H-10 SPECIAL INSTRUCTIONS: Jets only. When using this departure, file the appropriate depicted fix and route. TAKE-OFF MINIMUMS: Rwys 7, 15, 33: STANDARD. Rwy 25: 300-2 or Standard with minimum climb of 211 ft per NM to 1400, or alternatively, with standard takeoff minimums and a normal 200 ft/NM climb gradient, takeoff must occur no later than 1,500 ft prior to departure end **RICHMOND** of runway. 110.6 R**I**D Chan 43 N39°45.30′ - W84° 50.33′ NOTE: RADAR Required. L-27, H-10 NOTE: Chart not to scale. (NARRATIVE ON FOLLOWING PAGE)

# RICHMOND FOUR DEPARTURE

 $\label{eq:detroit_michigan} \mbox{ detroit, michigan } \\ \mbox{ detroit/ Coleman A. Young Muni } (DET)$ 

(RID4.RID) 09015

## RICHMOND FOUR DEPARTURE



EC-1, 26 AUG 2010 to 23 SEP 2010

#### DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 33: Climb via heading 328° to 1800 before turning, expect radar vectors, thence ....

TAKE OFF ALL OTHER RWYS: Climb via assigned heading for radar vectors thence ....

....To intercept DXO VOR/DME R-202 to CAVVS INT/DXO 33 DME, then via VWV R-015 to VWV VOR/DME. Then right turn via VWV R-211 and RID R-031 to RID VORTAC. Maintain 3,000 feet, expect clearance to filed altitude/flight level ten (10) minutes after departure.

#### TAKE-OFF OBSTACLES:

Rwy 7: Multiple trees beginning 232' from DER, 20' left of centerline, up to 60' AGL/687' MSL. Multiple trees beginning 283' from DER, 44' right of centerline, up to 56' AGL/680' MSL. Stack 533' from DER, 66' right of centerline, 50' AGL/671' MSL. OL on stack on Bldg 566' from DER, 18' right of centerline, 50' AGL/671' MSL.

OL on floodlight 622' from DER, 104' left of centerline, 41' AGL/668' MSL. Light standard 149' from DER, 138' left of centerline, 37' AGL/654' MSL.

Light standard 227' from DER, 105' right of centerline, 33' AGL/654' MSL. Antenna on Bldg 936' from DER, 84' right of centerline, 43' AGL/670' MSL.

OL floodlight 909' from DER, 96' right of centerline, 41' AGL/668' MSL. Pole 466' from DER, 198' right of centerline, 30' AGL/654' MSL.

OL on pole 132' from DER, on centerline, 16' AGL/637' MSL.

Rwy 15: Multiple trees beginning 589' from DER, 221' left of centerline up to 69' AGL/683' MSL. Multiple trees beginning 299' from DER, 289' right of centerline, up to 52' AGL/679' MSL. Ant on APBN 662' from DER, 667' left of centerline, 81' AGL/695' MSL.

Pipe on OL Bldg 783' from DER, 597' left of centerline, 62' AGL/676' MSL. OL on Bldg 1473' from DER, 556' right of centerline, 68' AGL/692' MSL. Tower 3376' from DER, 1118' right of centerline, 103' AGL/723' MSL.

Antenna on Bldg 803' from DER, 522' right of centerline, 35' AGL/656' MSL. Building 3749' from DER, 569' left of centerline, 114' AGL/723' MSL.

Floodlight on Bldg 1611' from DER, 657' left of centerline, 53' AGL/667' MSL. Rod on OL building 450' from DER, 317' left of centerline, 20' AGL/637' MSL.

Multiple trees beginning 334' from DER, 132' right of centerline, 58' AGL/685' MSL.

Rwy 25: Tower 2828' from DER, 1225' left of centerline, 141' AGL/770' MSL. Multiple trees beginning 909' from DER, 133' left of centerline, up to 76' AGL/703' MSL.

OL on building 48' from DER, 240' left of centerline, 41' AGL/662' MSL. Railroad 1' from DER, 126' left of centerline, 29' AGL/650' MSL.

OL on stack 454' from DER, 45' left of centerline, 35' AGL/659' MSL.

Railroad 190' from DER, 40' left of centerline, 29' AGL/650' MSL.

OL stack on Bldg 949' from DER, 44' left of centerline, 41' AGL/668' MSL. Stack 958' from DER, 12' left of centerline, 41' AGL/668' MSL.

Light standard 701' from DER, 145' right of centerline, 26' AGL/653' MSL. Stack 9474 from DER, 2415' left of centerline, 241' AGL/872' MSL.

Rwy 33: Multiple trees beginning 113' from DER, 118' left of centerline, up to 73' AGL/694' MSL. Multiple trees beginning 572' from DER, 84' right of centerline, up to 92' AGL/709' MSL. Flag pole 963' from DER, 379' left of centerline, 28' AGL/658' MSL.

DETROIT, MICHIGAN AL-118 (FAA) 5090 WAAS Rwy Idg RNAV (GPS) RWY 15 APP CRS CH 63211 624 TDŹE 148° DETROIT/ COLEMAN A. YOUNG MUNI (DET) 626 W15A Apt Elev For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above

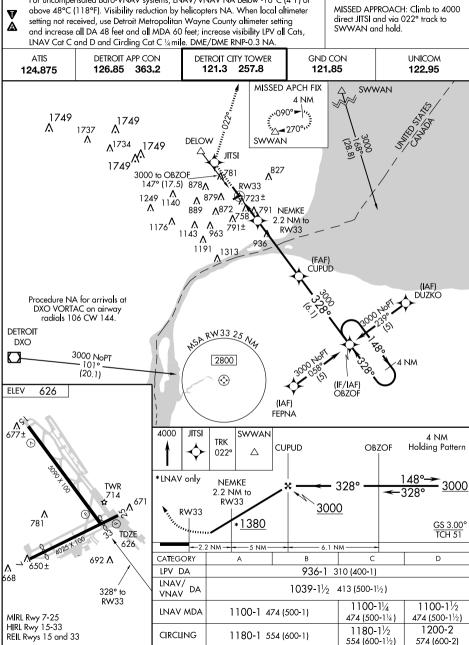
48°C (118°F). Visibility reduction by helicopters NA. When local altimeter setting not received, use Detroit Metropolitan Wayne County altimeter setting and increase all DA 48 feet and all MDA 60 feet, increase visibility LPV all Cats, LNAV/VNAV all Cats, and MISSED APPROACH: Climb to 3000 direct OBZOF and hold. Circling Cat C 1/4 mile. DME/DME RNP-0.3 NA **ATIS** DETROIT APP CON DETROIT CITY TOWER GND CON UNICOM 121.3 257.8 121.85 122.95 126.85 363.2 124.875 2800 NOPT (IAF) NSA RW 15 25 Ny BLUEZ 2800 Hop PONTIAC S 1298 PS (16.8) 2800 Procedure NA for arrival at BLUEZ Int via V450  $\bigcirc$ Procedure NA for arrival east bound. at PSI VORTAC via V410 (IF/IAF) west bound. IHIDE (IAF) ESAYO (FAF) BULYN ^1*74*9 1749 1737 **^** 1749 <u>∧</u> 1749 RW15 1 827 1140<sub>A</sub> <sub>1249</sub>∧ MISSED APCH FIX 4 NM 1191 1313 OBZOF Procedure NA for arrival ELEV 626 at DXO VORTAC via DETROIT V26-133 southeast bound 148° to DXO RW15 3000 OB7OF 4 NM Holding Pattern **IHIDE BULYN** TDZE 624 2800 148° ير^6711 2800 GS 3.00° **∧** 781 TCH 60 6.1 NM 6.5 NM CATEGORY Α В C D LPV DA 927-1 303 (400-1) 692 A LNAV/ 650± DA 1079-11/2 455 (500-11/2) VNAV 1180-11/2 1180-134 LNAV MDA 1180-1 556 (600-1) 556 (600-11/2) 556 (600-134) MIRL Rwy 7-25 1180-11/2 1200-2 HIRL Rwy 15-33 CIRCLING 1180-1 554 (600-1) REIL Rwys 15 and 33 554 (600-11/2) 574 (600-2) DETROIT, MICHIGAN DETROIT/COLEMAN A. YOUNG MUNI (DET)Orig 09295

EC-1, 26 AUG 2010 to 23 SEP 2010

RNAV (GPS) RWY 15

# DETROIT/ COLEMAN A. YOUNG MUNI (DET)

above 48°C (118°F). Visibility reduction by helicopters NA. When local altimeter setting not received, use Detroit Metropolitan Wayne County altimeter setting and increase all DA 48 feet and all MDA 60 feet; increase visibility LPV all Cats, LNAV Cat C and D and Circling Cat C 1/4 mile. DME/DME RNP-0.3 NA



DETROIT, MICHIGAN Orig 09295

EC-1, 26 AUG 2010 to 23 SEP 2010

DETROIT/COLEMAN A. YOUNG MUNI (DET)RNAV (GPS) RWY 33

DETROIT, MICHIGAN

V

EC-1, 26 AUG 2010 to 23 SEP 2010

#### DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 33: Climb heading 328 to 1800 before turning expect vectors to join the assigned SID. Maintain 3000 feet, expect clearance to filed altitude/flight level ten (10) minutes after departure.

TAKE-OFF ALL OTHER RUNWAYS: Climb via assigned heading for radar vectors to join the assigned SID. Maintain 3000 feet, expect clearance to filed altitude/flight level ten (10) minutes after departure.

### **TAKE-OFF OBSTACLES:**

Rwy 7: Multiple trees beginning 232' from DER, 20' left of centerline, up to 60' AGL/687' MSL. Multiple trees beginning 283' from DER, 44' right of centerline, up to 56' AGL/680' MSL. Stack 533' from DER, 66' right of centerline, 50' AGL/671' MSL.

OL on stack on Bldg 566' from DER, 18' right of centerline, 50' AGL/671' MSL. OL on floodlight 622' from DER, 104' left of centerline, 41' AGL/668' MSL.

Light standard 149' from DER, 138' left of centerline, 37' AGL/654' MSL. Light standard 227' from DER, 105 right of centerline, 33' AGL/654' MSL. Antenna on Bldg 936' from DER, 84' right of centerline, 43' AGL/670' MSL.

OL floodlight 909' from DER, 96' right of centerline, 41' AGL/66' MSL.

Pole 466' from DER, 198' right of centerline, 30' AGL/654' MSL.
OL on pole 132' from DER, on centerline, 16' AGL/637' MSL.

Rwy 15: Multiple trees beginning 589' from DER, 221' left of centerline up to 69' AGL/683' MSL. Multiple trees beginning 299' from DER, 289' right of centerline, up to 52' AGL/679' MSL. Ant on APBN 662' from DER, 667' left of centerline, 81' AGL/695' MSL.

Pipe on OL Bldg 783' from DER, 597' left of centerline, 62' AGL/676' MSL. OL on Bldg 1,473' from DER, 556' right of centerline, 68' AGL/692' MSL.

Tower 3,376' from DER, 1,118' right of centerline, 103' AGL/723' MSL. Antenna on Bldg 803' from DER, 522' right of centerline, 35' AGL/656' MSL. Building 3,749' from DER, 569' left of centerline, 114' AGL/723' MSL.

Floodlight on Bldg 1,611' from DER, 657' left of centerline, 53' AGL/667' MSL. Rod on OL building 450' from DER, 317' left of centerline, 20' AGL/637' MSL.

Rwy 25: Tower 2,828' from DER, 1,225' left of centerline, 141' AGL/770' MSL.

Multiple trees beginning 909' from DER, 133' left of centerline, up to 76' AGL/703' MSL.

Multiple trees beginning 334' from DER, 132' right of centerline, 58' AGL/685' MSL. OL on building 48' from DER, 240' left of centerline, 41' AGL/662' MSL.

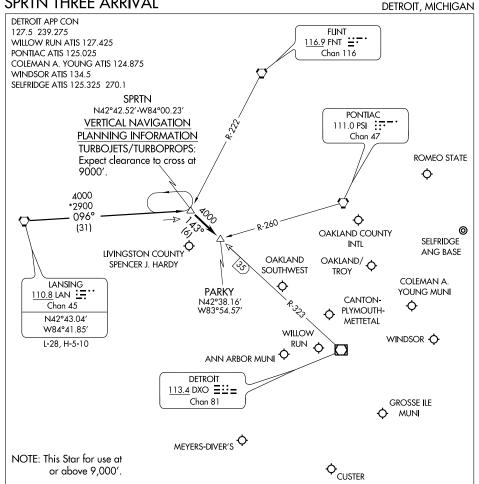
Railroad 1' from DER, 126' left of centerline, 29' AGL/650' MSL.

OL on stack 454' from DER, 45' left of centerline, 35' AGL/659' MSL. Railroad 190' from DER, 40' left of centerline, 29' AGL/650' MSL. OL stack on Bldg 949' from DER, 44' left of centerline, 41' AGL/668' MSL.

Stack 958' from DER, 12' left of centerline, 41' AGL/668' MSL. Light standard 701' from DER, 145' right of centerline, 26' AGL/653' MSL.

Stack 9,474 from DER, 2,415' left of centerline, 26' AGL/653' MSL

Rwy 33: Multiple trees beginning 113' from DER, 118' left of centerline, up to 73' AGL/694' MSL. Multiple trees beginning 572' from DER, 84' right of centerline, up to 92' AGL/709' MSL. Flag pole 963' from DER, 379' left of centerline, 28' AGL/658' MSL.



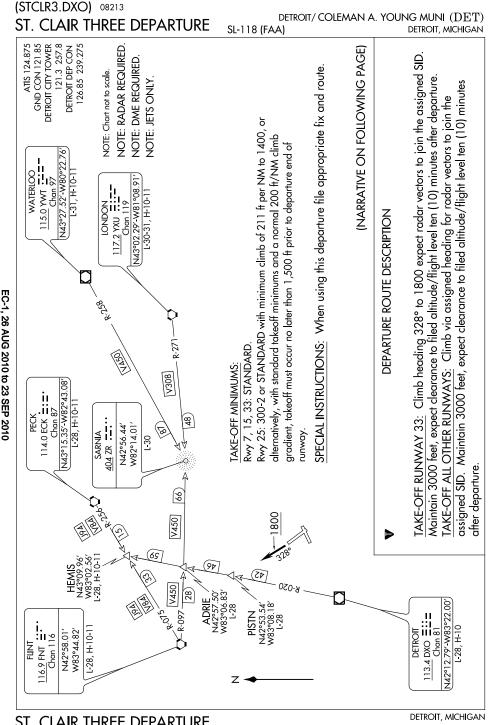
LANSING TRANSITION (LAN.SPRTN3): From over LAN VORTAC via LAN R-096 to SPRTN INT. Thence . . . .

. . . . Aircraft landing: DET, PTK, VLL, D98, MTC, ARB, YIP, ONZ, 1D2, TTF, Y47, 36MI, OZW, 3TE, YQG: From over SPRTN INT via DXO R-323

to PARKY INT. Thence . . . .

. . . . Expect radar vectors to final approach course.

NOTE: Chart not to scale.



# ST. CLAIR THREE DEPARTURE (STCLR3.DXO) 08213

 $\label{eq:detroit_detroit} \mbox{detroit, michigan} \\ \mbox{detroit/coleman a. Young muni } (DET)$ 

ST. CLAIR THREE DEPARTURE

## TAKE-OFF OBSTACLES:

Rwy 7: Multiple Trees beginning 232' from DER, 20' left of centerline, up to 60' AGL/687' MSL. Multiple Trees beginning 283' from DER, 44' right of centerline, up to 56' AGL/680' MSL. Stack 533' from DER, 66' right of centerline, 50' AGL/671' MSL OL on Stack on Bldg 566' from DER, 18' right of centerline, 50' AGL/671' MSL.

OL on Floodlight 622' from DER, 104' left of centerline, 41' AGL/668' MSL. Light Standard 149' from DER, 138' left of centerline, 37' AGL/654' MSL. Light Standard 227' from DER, 105 right of centerline, 33' AGL/654' MSL.

Antenna on Bldg 936' from DER, 84' right of centerline, 43' AGL/670' MSL. OL Floodlight 909' from DER, 96' right of centerline, 41' AGL/668' MSL. Pole 466' from DER, 198' right of centerline, 30' AGL/654' MSL.

OL on Pole 132' from DER, on centerline, 16' AGL/637' MSL. Rwy 15: Multiple Trees beginning 589' from DER, 221' left of centerline up to 69' AGL/683' MSL.

Multiple Trees beginning 299' from DER, 289' right of centerline, up to 52' AGL/679' MSL. Ant on APBN 662' from DER, 667' left of centerline, 81' AGL/695' MSL. Pipe on OL Bldg 783' from DER, 597' left of centerline, 62' AGL/676' MSL.

OL on Bldg 1,473' from DER, 556' right of centerline, 68' AGL/692' MSL. Tower 3,376' from DER, 1,118' right of centerline, 103' AGL/723' MSL. Antenna on Bldg 803' from DER, 522' right of centerline, 35' AGL/656' MSL. Building 3,749' from DER, 569' left of centerline, 114' AGL/723' MSL.

Floodlight on Bldg 1,611' from DER, 657' left of centerline, 53' AGL/667' MSL. Rod on OL Building 450' from DER, 317' left of centerline, 20' AGL/637' MSL.

Rwy 25: Tower 2,828' from DER, 1,225' left of centerline, 141' AGL/770' MSL. Multiple Trees beginning 909' from DER, 133' left of centerline, up to 76' AGL/703' MSL. Multiple Trees beginning 334' from DER, 132' right of centerline, 58' AGL/685' MSL. OL on Building 48' from DER, 240' left of centerline, 41' AGL/662' MSL.

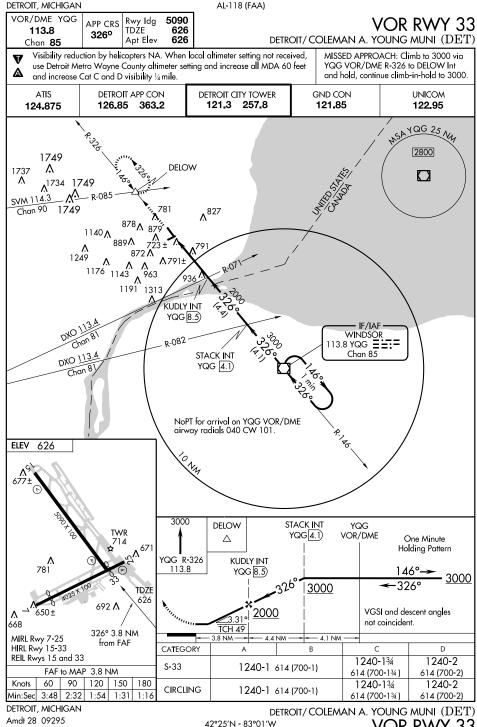
OL on Stack 454' from DER, 45' left of centerline, 35' AGL/659' MSL. Railroad 190' from DER, 40' left of centerline, 29' AGL/650' MSL. OL Stack on Bldg 949' from DER, 44' left of centerline, 41' AGL/668' MSL.

Railroad 1' from DER, 126' left of centerline, 29' AGL/650' MSL.

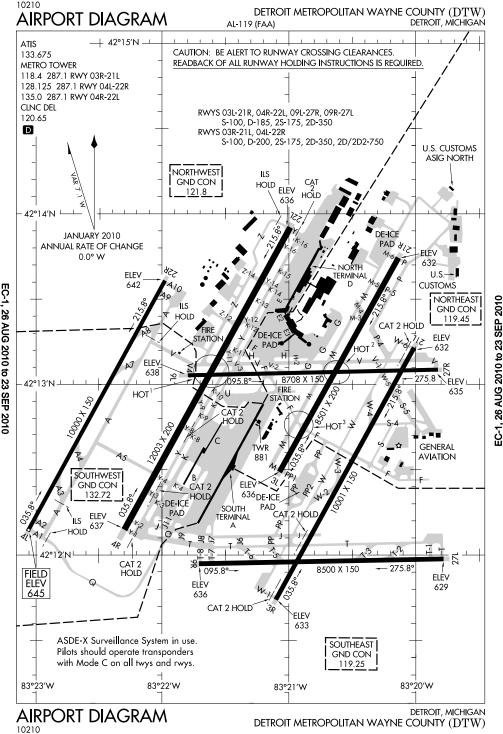
Stack 958' from DER, 12' left of centerline, 41' AGL/668' MSL. Light Standard 701' from DER, 145' right of centerline, 26' AGL/653' MSL. Stack 9,474 from DER, 2,415' left of centerline, 241' AGL/872' MSL. Rwy 33: Multiple Trees beginning 113' from DER, 118' left of centerline, up to 73' AGL/694' MSL.

Multiple Trees beginning 572' from DER, 84' right of centerline, up to 92' AGL/709' MSL. Flag Pole 963' from DER, 379' left of centerline, 28' AGL/658' MSL.

DETROIT, MICHIGAN



VOR RWY 33



MICHIGAN 145

S-100, D-200, 2S-175,

S-100, D-185,

DETROIT METROPOLITAN WAYNE CO (DTW) 15 S UTC-5(-4DT) N42°12.75′ W83°21.20′

FUEL 100LL, JET A OX 1, 3, 4 AOE Class I. ARFF Index E

RWY 22L: MALSR. Railroad.

RWY 22R: MALSR. Antenna.

2S-175, 2D-350 HIRL RWY 09L: REIL. Antenna. RWY 27R: MALSR. PAPI(P4L)-GA 3.0° TCH 61'.

RWY 03R: ALSF2. TDZL. PAPI(P4R)-GA 3.0° TCH 54'. Trees. RWY 21L: MALSR. PAPI(P4L)-GA 3.0° TCH 55'. Berm.

RWY 09L-27R: H8708X150 (ASPH-CONC-GRVD) S-100, D-185,

HIRL CL

RWY 03L-21R: H8501X200 (ASPH-CONC-GRVD)

RWY 04R-22L: H12003X200 (CONC-GRVD)

RWY 03R-21L: H10001X150 (CONC-GRVD)

RWY 04L-22R: H10000X150 (CONC-GRVD) 2S-175, 2D-350, DDT-750

2D-350, 2D/2D2-750 HIRL CL

RWY 04R: ALSF2. TDZL. Tree.

RWY 04L: ALSF2, TDZ, Pole.

2S-175, 2D-350 HIRL CL

RWY 03L: REIL. PAPI(P4R)-GA 3.0° TCH 58'. Pole. RWY 21R: REIL. PAPI(P4L)-GA 3.0° TCH 59'. Pole.

RWY 09R-27L: H8500X150 (CONC-GRVD) S-100, D-185, 2S-175, 2D-350 HIRL CL

RWY 09R: REIL.

RWY 27L: MALSR, PAPI(P4L)—GA 3.0° TCH 55'.

#### RUNWAY DECLARED DISTANCE INFORMATION

RWY 03L: TORA-8501 TODA-8501 ASDA-8501

RWY N3R-

TORA-10001 TODA-10001 ASDA-10001 LDA-10001

RWY 04L: TORA-10000 TODA-10000 ASDA-10000 LDA-10000

RWY N4R-TORA-12003 TODA-12003 ASDA-12003 LDA-12003

RWY 09L: TORA-8708 TODA-8708

ASDA-8500

RWY 09R: TORA-8500 TODA-8500 TORA-10001 TODA-10001 ASDA-10001 LDA-10001

RWY 21L:

TORA-8500

TORA-8708

Service (ADCUS) available.

RWY 21R-TORA-8501 TODA-8501

RWY 22L: RWY 22R:

RWY 27L:

RWY 27R:

COMMUNICATIONS: D-ATIS 133.675 734-941-5363 CARLETON RCO 122.1R 115.7T (LANSING RADIO)

(R) DEP CON 132.025 (TURBOJETS-EAST) 134.3 (TURBOPROPS-EAST) 125.525 (TURBOJETS-WEST) 118.95 (TURBOPROP-WEST) 118.575 (EAST) CLNC DEL 120.65 PRE TAXI CLNC 120.65 AIRSPACE: CLASS B: See VFR Terminal Area Chart.

S-100, D-185, 2S-175, 2D-350 HIRL CL Rwy 3L-21R: 8501 X 200

NOTAM FILE DTW

DETROIT

COPTER

IAP. AD

H-10G, L-28J, A

LDA-8501

ASDA-8618 LDA-8618 LDA-8500

LDA-8501 TORA-12003 TODA-12003 ASDA-12003 LDA-12003 TORA-10000 TODA-10000 ASDA-10000 LDA-10000 LDA-8500

LDA-8708 AIRPORT REMARKS: Attended continuously. Be alert birds, waterfowl on and invof arpt. Rwy 21R departures be alert for

optical illusion, acft taxiing on Twy T may appear as though crossing Rwy 21R centerline. Rwy 22L departures be alert for optical illusion, acft taxiing on Twy O may appear as though crossing Rwy 22L centerline. Brightly Igtd

parking lot 2.6 NM SW of arpt. ASDE-X surveillance system in use; pilots should operate transponders with

mode C on all twys and rwys. Rwy 03R ALSF2 req when RVR/visibility is 6000/1 mile or less. SSALR ops when RVR/visibility is 6000/1 mile. Rwy 03L-21R touchdown and rollout rwy visual range avbl. Rwy 04L-22R touchdown, midfield and rollout rwy visual range avbl. Rwy 09L rwy visual range midfield avbl. Rwy 27L touchdown rwy visual range avbl. Acft on Twy F and Twy V do not block fire station exits. Twy G N of Twy V is a

non-movement area. Unidirectional stop bars on Rwy 27R when being used for taxi. Ldg fee. Flight Notification WEATHER DATA SOURCES: ASOS (734) 941-7848. LLWAS. TDWR.

(R) APP CON 125.15 118.575 (EAST) 124.05 (WEST) 124.975 124.25

ASDA-8501

ASDA-8500

ASDA-8708

METRO TOWER 135.0 (Rwy 04R-22L) 128.125 (Rwy 04L-22R) 118.4 (Rwy 03R-21L)

GND CON 121.8 (NORTHWEST) 132.72 (SOUTHWEST) 119.25 (SOUTHEAST) 119.45 (NORTHEAST)

CONTINUED ON NEXT PAGE

TODA-8500

TODA-8708

146 MICHIGAN

#### CONTINUED FROM PRECEDING PAGE

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

629/3W. HIWAS.

CARLETON (H) VORTAC 115.7 CRL Chan 104 N42°02.88' W83°27.45' 028° 10.9 NM to fld.

(H) VORW/DME 113.4 DXO Chan 81 N42°12.79′ W83°22.00′ at fld. 638/6W. NOTAM FILE DTW.

DME unusable byd 30 NM below 2900'.

REVUP NDB (LOM) 388 DT N42°07.21′ W83°25.90′ 038° 6.6 NM to fld. Unmonitored. SHUTDOWN.

SPENC NDB (LOM) 223 DM N42°13.20′ W83°12.20′ 272° 6.7 NM to fld.

ILS/DME 111.95 I-HJT Chan 56Y Rwy 04L. Class IIIE. DME also serves Rwy 22R.

ILS/DME 110.7 I-DTW Rwy 04R. LOM REVUP NDB. OM unmonitored. LOM SHUTDOWN. Chan 44

ILS/DME 110.7 I-DWC Chan 44 Rwy 22L. Class IE.

ILS/DME 111.95 I-JKI Chan 56Y Rwy 22R. Class IE. DME also serves Rwy 04R.

Chan 52 ILS/DME 111.5 I–HUU Rwv 03R.

ILS/DME 111.5 I-EJR Chan 52 Rwy 21L. LOM SPENC NDB. ILS 108.5 I-DMI Rwv 27R.

I-EPA Rwv 27L. Class IE.

COMM/NAV/WEATHER REMARKS: Dual VHF communications required for Simultaneous Close Parallel ILS PRM

Approaches, Rwy 04L and Rwy 22R Monitor 127.05, Rwy 04R and Rwy 22L Monitor 135,775 and Rwy 03R and Rwv 21L Monitor 128.35.

HIRL

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WILLOW RUN (YIP) 24 SW UTC-5(-4DT) N42°14.36′ W83°31.86′
                                              ARFF Index—See Remarks NOTAM FILE YIP
  716 B S4
               FUEL 100LL, JET A OX 1, 3 LRA
```

RWY 05R-23L: H7526X150 (ASPH) S-55, D-70, 2S-89, 2D-120 RWY 05R: MALSR. Tree.

RWY 23L: MALSR. VASI(V4L)-GA 3.0° TCH 56'.

RWY 09-27: H7294X160 (ASPH-GRVD) S-55, D-70, 2S-89.

2D-120 MIRL

RWY 09: Thid dspled 574', Railroad. RWY 14-32: H6312X160 (ASPH-GRVD) S-35, D-45, 2D-90

RWY 14: Antenna.

RWY 32: REIL, PAPI(P4L)—GA 3.5° TCH 45', Thid dspicd 525',

RWY 05L-23R: H5995X160 (ASPH-GRVD) S-35, D-45, 2D-90

MIRI

RWY 051 - Trees RWY 23R: Trees

RUNWAY DECLARED DISTANCE INFORMATION

RWY 05L: TORA-5995 TODA-5995 ASDA-5995 LDA-5995 RWY 23R: TORA-5995 TODA-5995 ASDA-5995 LDA-5995

AIRPORT REMARKS: Attended continuously. Helicopter tkf and ldg on the south ramp prohibited, taxi only. Birds on and invof arpt. Rwys

09-27, only the 80' center portion is grvd. Class IV, ARFF Index A. ARFF Index E svc avbl on reg call 734-485-6660. 48 hr PPR for unscheduled air carrier ops with more than 30 passenger seats

weekend. U.S. customs user fee arpt. All billing thru Wayne Co. Arpt Authority; For customs clearance 1 hr minimum advance notification rgr. Pilots must ctc U.S. customs on 313-226-3140. Reg for customs svc by FAA flight plan is not accepted. Ldg fee. Ldg fee is based on acft gross weight.

WEATHER DATA SOURCES: ASOS 132.350 (734) 485-9056, LAWRS.

COMMUNICATIONS: ATIS 127.425 (734) 482-6590

(R) DETROIT APP/DEP CON 118.95

TOWER 125.275 **GND CON 121.75** RADIO AIDS TO NAVIGATION: NOTAM FILE DTW.

DETROIT (H) VORW/DME 113.4 DXO Chan 81 N42°12.79′ W83°22.00′

YIPPS NDB (LOM) 359 YI N42°10.45′ W83°37.29′ 052° 5.6 NM to fld. Unmonitored. ILS/DME 109.5 I-YIP Chan 32 Rwy 05R. Class IE. LOM YIPPS NDB.

I-LSW Chan 32 Rwv 23L. COMM/NAV/WEATHER REMARKS: Emerg frequencies not avbl at twr.

MIRL 0/00 7294 X 160 A Œ requiring Index C or greater call arpt manager 734-485-6670. Flight Notification Service (ADCUS) avbl call 734-942-9000. Customs avbl 24 hrs, Mon-Fri and on call from Detroit Metropolitan Wayne Co arpt on

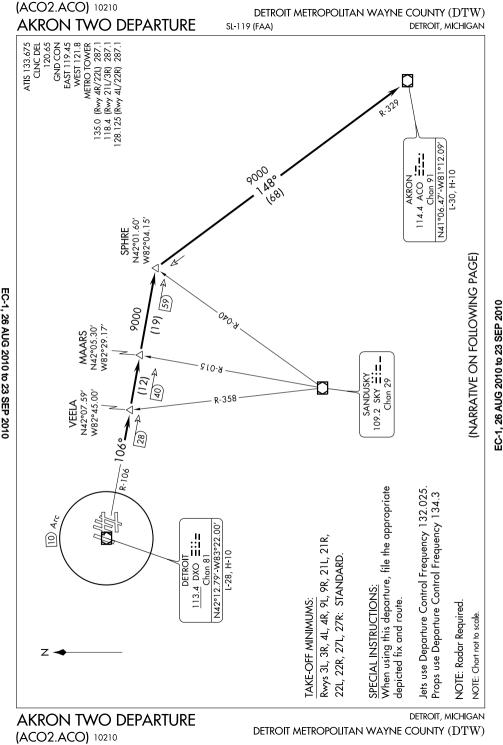
288° 7.5 NM to fld. 638/6W.

DETROIT

COPTER

IAP. AD

H-10G, L-28J, A





### DEPARTURE ROUTE DESCRIPTION

TAKE-OFF ALL RUNWAYS: Climb via assigned heading for radar vectors to intercept DXO VOR/DME R-106, to SPHRE INT, then via ACO R-329 to ACO VOR/DME. Jets maintain 10,000 feet, cross DXO 10 DME Arc at or above 5,000 feet for noise abatement. If unable to comply, advise ATC prior to departure. Props maintain 4,000 feet or lower assigned altitude. Expect clearance to filed altitude/flight level ten (10) minutes after departure.

### TAKE-OFF OBSTACLES

Rwy 3R: Headwall 399' from DER, 566' right of centerline, 17' AGL/647' MSL.

Rwy 4L: Multiple Trmsn Towers 1516' from DER, 827' left of centerline, up to 60' AGL/690' MSL.

Multiple Antennas 2751' from DER, 762' right of centerline, up to 84'

Rwy 9L: Multiple Trees 968' to 2519' from DER, 462' left of centerline and 1173'

AGL/714' MSL.

Rwy 4R: Antenna on Bldg 3348' from DER, 1301' left of centerline, 100' AGL/736' MSL.

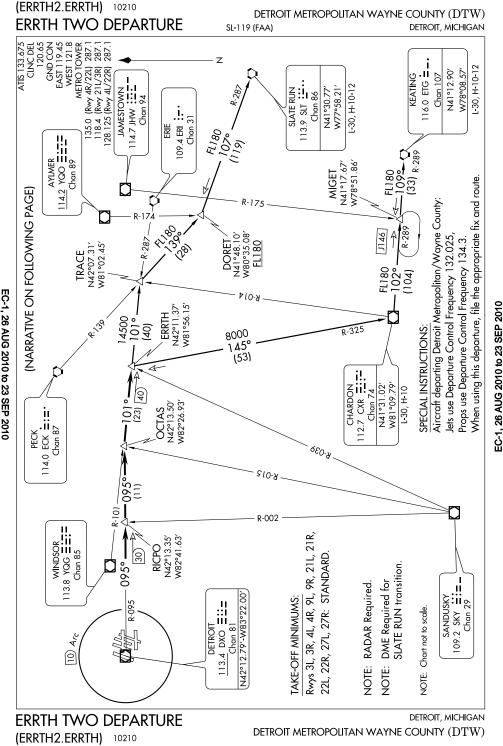
right of centerline, up to 85' AGL/715' MSL.

Rwy 9R: Tree 1837' from DER, 947' right of centerline, 50' AGL/686' MSL.

Rwy 21L: Multiple Trees 1079' to 3910' from DER, 586' left of centerline and 1188' right of centerline, up to 100' AGL/733' MSL.

Rwy 22L: Multiple Trees 794' to 3694' from DER, 611' right of centerline and 1381' left of centerline, up to 110' AGL/740' MSL.

Rwy 27R: Rod on ASR 4461' from DER, 464' left of centerline, 106' AGL/756' MSL.



V DEPARTURE ROUTE DESCRIPTION

TAKE-OFF ALL RUNWAYS: Climb via assigned heading for radar vectors to intercept DXO VOR/DME R-095 to OCTAS INT then via YQG R-101 to ERRTH, then via (transition). Jets maintain 10,000 feet, cross DXO VOR/DME 10 DME at or above 5,000 feet for noise abatement. If unable to comply, advise ATC prior to departure. Props maintain 4,000 feet or lower assigned altitude. Expect clearance to filed altitude/flight level ten (10) minutes after departure.

CHARDON TRANSITION (ERRTH2.CXR): From over ERRTH INT via CXR R-325 to CXR VOR/DME.

KEATING TRANSITION (ERRTH2.ETG): From over ERRTH INT

via CXR R-325 to CXR VOR/DME, then via CXR R-102 and ETG R-289 to MIGET INT, then via ETG R-289 to ETG VORTAC.

SLATE RUN TRANSITION (ERRTH2.SLT): (DME Required) From over ERRTH INT via YQG R-101 to TRACE INT, then via ECK R-139 to DORET INT, then via SLT R-287 to SLT VORTAC.

## TAKE-OFF OBSTACLES

EC-1, 26 AUG 2010 to 23 SEP 2010

Rwy 3R: Headwall 399' from DER, 566' right of centerline, 17' AGL/647' MSL.

Rwy 4L: Multiple transmission towers 1516' from DER, 827' left of centerline, up to 60' AGL/690' MSL. Multiple antennas 2751' from DER, 762' right of centerline, up to 84'

AGL/714' MSL.

Rwy 4R: Antenna on building 3348' from DER, 1301' left of centerline, 100' AGL/736' MSL.

Rwy 9L: Multiple trees 968' to 2519' from DER, 462' left of centerline and

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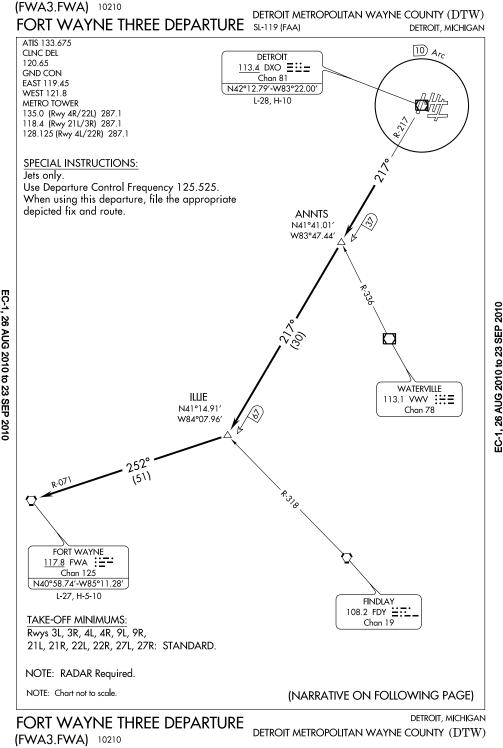
Rwy 21L: Multiple trees 1079' to 3910' from DER, 586' left of centerline and 1188' right of centerline, up to 100' AGL/733' MSL.

Rwy 22L: Multiple trees 794' to 3694' from DER, 611' right of centerline and 1381' left of centerline, up to 110' AGL/740' MSL.

Rwy 27R: Rod on ASR, 4461' from DER, 464' left of centerline, 106' AGL/756' MSL.

ERRTH TWO DEPARTURE

(ERRTH2.ERRTH)



## FORT WAYNE THREE DEPARTURE

SL-119 (FAA)

DETROIT, MICHIGAN

DETROIT METROPOLITAN WAYNE COUNTY (DTW)

V

EC-1, 26 AUG 2010 to 23 SEP 2010

## DEPARTURE ROUTE DESCRIPTION

TAKE-OFF ALL RUNWAYS: Climb via assigned heading for radar vectors to intercept DXO VOR/DME R-217 to ILLIE INT, then via FWA R-071 to FWA VORTAC. Maintain 10,000 feet, cross DXO VOR/DME 10 DME at or above 5,000 feet for noise abatement. If unable to comply, advise ATC prior to departure. Expect clearance to filed flight level ten (10) minutes after departure.

## TAKE-OFF OBSTACLES:

Headwall 399' from DER, 566' right of centerline, 17' AGL/647' MSL. Rwy 3R:

Rwy 4L: Multiple Trmsn towers 1516' from DER, 827' left of centerline, up to 60' AGL/690' MSL.

Multiple antennas 2751' from DER, 762' right of centerline, up to 84' AGL/714' MSL.

Antenna on building 3348' from DER, 1301' left of centerline, Rwy 4R:

100' AGL/736' MSL. Rwy 9L: Multiple trees 968' to 2519' from DER, 462' left of centerline and

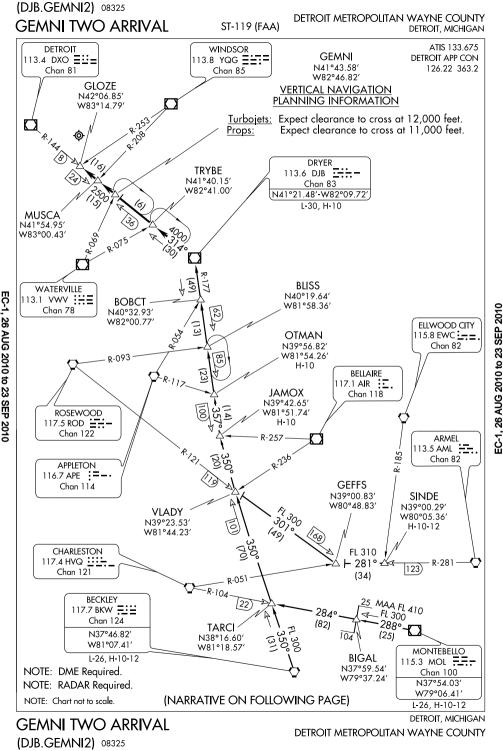
1173' right of centerline, up to 85' AGL/715' MSL. Tree 1837' from DER, 947' right of centerline, 50' AGL/686' MSL.

Rwy 21L: Multiple trees 1079' to 3910' from DER, 586' left of centerline and 1188' right of centerline, up to 100' AGL/733' MSL.

Rwy 22L: Multiple trees 794' to 3694' from DER, 611' right of centerline to 1381' left of centerline, up to 110' AGL/740' MSL.

Rwy 27R: Rod on ASR, 4461' from DER, 464' left of centerline, 106' AGL/756' MSL.

FORT WAYNE THREE DEPARTURE (FWA3.FWA) 08101



(DJB.GEMNI2) 07354

approach course.

GEMNITWO ARRIVAL

ST-119 (FAA)

DETROIT METROPOLITAN WAYNE COUNTY DETROIT, MICHIGAN

ARRIVAL ROUTE DESCRIPTION

BECKLEY TRANSITION (BKW.GEMNI2): From over BKW VORTAC via BKW R-350 to JAMOX INT, then via DJB R-177 to DJB VOR/DME, Thence. . . .

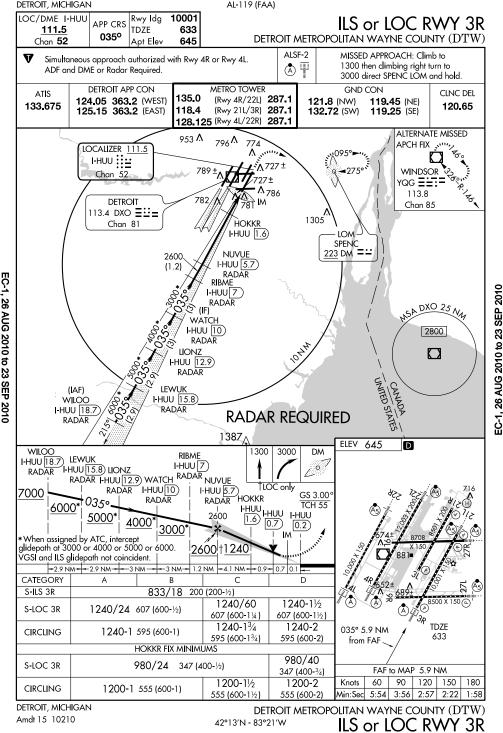
MONTEBELLO TRANSITION (MOL.GEMNI2): From over MOL VOR/DME via MOL

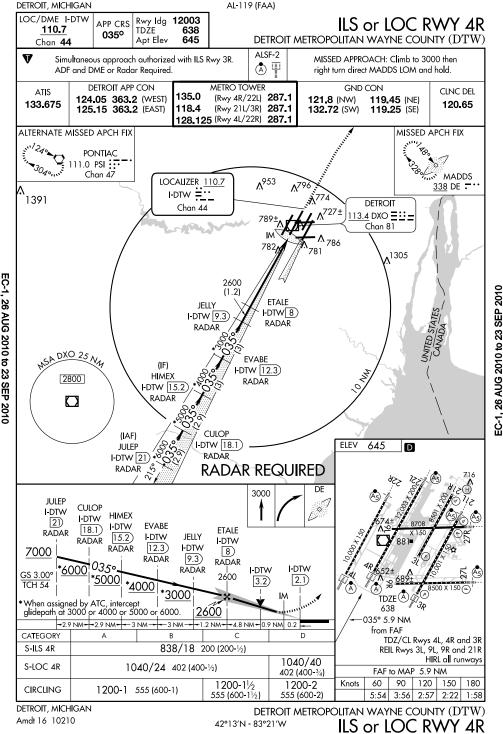
R-288 to BIGAL INT, then via HVQ R-104 to TARCI INT, then via BKW R-350 to JAMOX INT, then via DJB R-177 to DJB VOR/DME. Thence. . . .

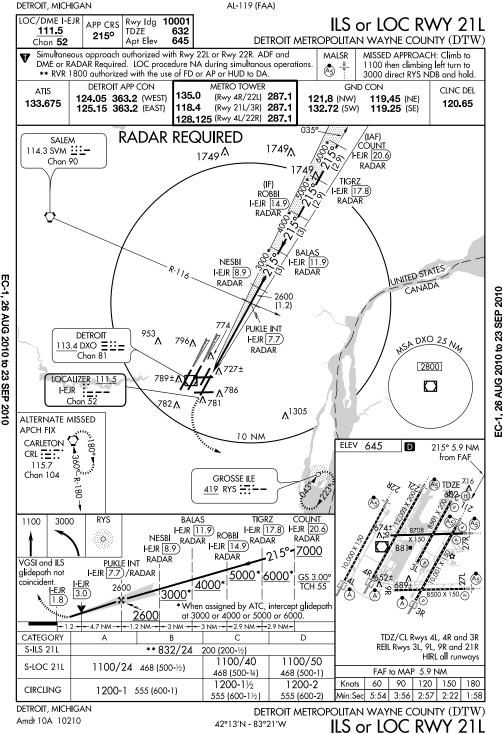
SINDE TRANSITION (SINDE.GEMNI2): From over SINDE INT via AML R-281 to GEFFS INT, then via ROD R-121 to VLADY INT, then via BKW R-350 to JAMOX INT,

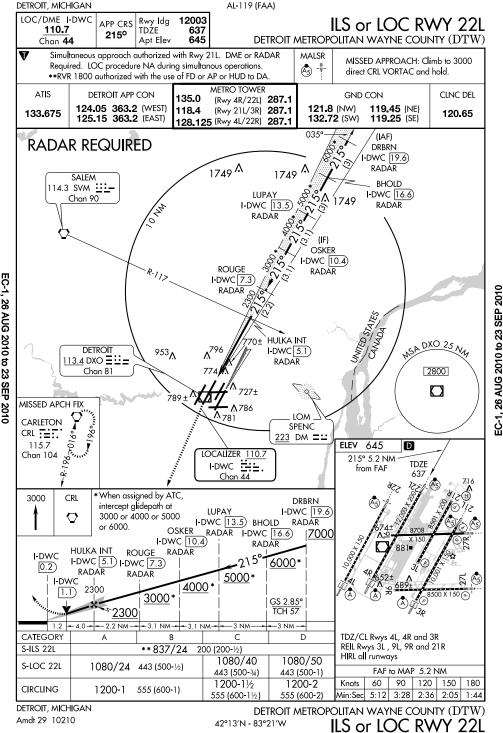
. . . . From over DJB VOR/DME via R-314 to GEMNI INT/36 DME, then via DXO VOR/DME R-144, to GLOZE INT/8 DME. Expect radar vectors to final

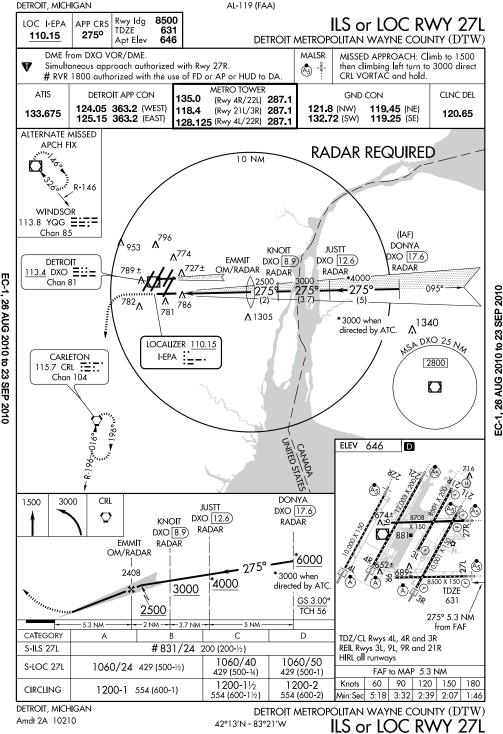
then via DJB R-177 to DJB VOR/DME. Thence. . . .

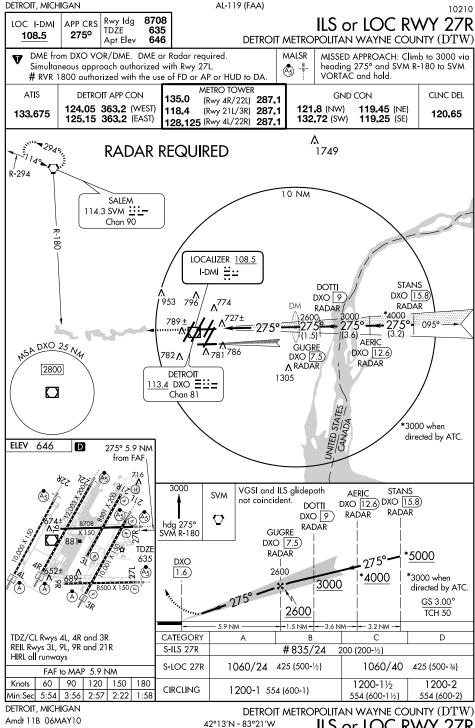




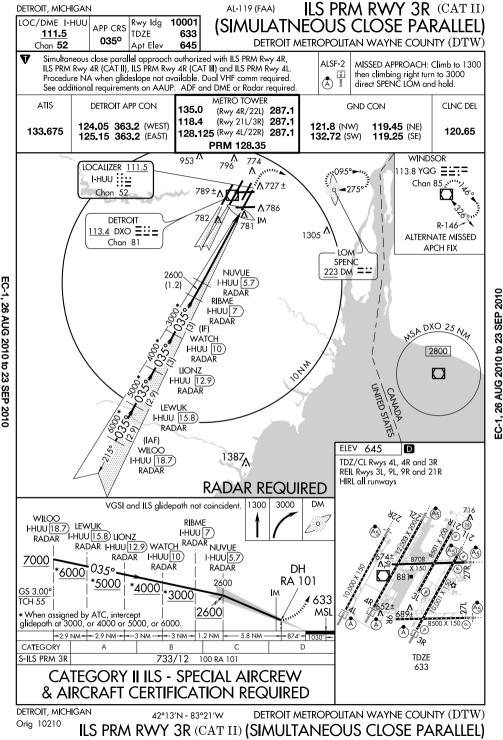








ILS or LOC RW



AL-119 (FAA)

DETROIT, MICHIGAN

## ATTENTION ALL USERS OF ILS PRECISION RUNWAY MONITOR (PRM)

Condensed Briefing Point:

EC-1, 26 AUG 2010 to 23 SEP 2010

 When instructed, immediately switch to the tower frequency and select the monitor frequency audio.

- 1. ATIS. When the ATIS broadcast advises that simultaneous ILS/PRM approaches are in progress, pilots should brief to fly the ILS/PRM 3R approach. If later advised to expect an ILS 3R approach, the ILS/PRM 3R chart may be used after completing the following briefina items:
  - (a) Minimums and missed approach procedures are unchanged.
  - (b) Monitor frequency no longer required. (c) A lower glideslope intercept altitude may be assigned when advised to expect ILS 3R approach.
- 2. Dual VHF Communication required. To avoid blocked transmissions, each runway will have two frequencies, a primary and a monitor frequency. The tower controller will transmit on both frequencies. The Monitor controller's transmissions, if needed, will override both frequencies. Pilots will ONLY transmit on the tower controller's frequency, but will listen to both frequencies. Select the monitor frequency audio only when instructed by ATC to contact the tower. The volume levels should be set about the same on both radios so that the pilots will be able to hear transmissions on at least one frequency if the other is blocked.
- the shortest amount of time. Pilots, when directed by ATC to break off an approach, must assume that an aircraft is blundering toward their course and a breakout must be initiated immediately. (a) ATC Directed "Breakouts:" ATC directed breakouts will consist of a turn and a climb or descent. Pilots must always initiate the breakout in response to an air traffic controller

3. All "Breakouts" are to be hand flown to assure that the maneuver is accomplished in

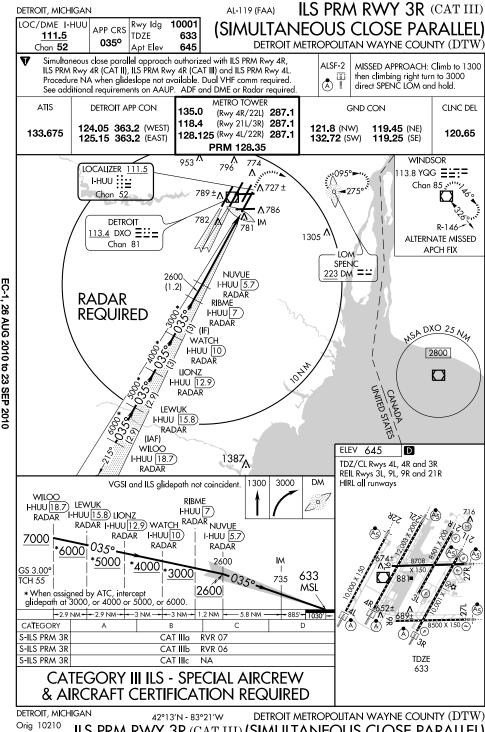
- instruction. Controllers will give a descending breakout only when there are no other reasonable options available, but in no case will the descent be below minimum vectoring altitude (MVA) which provides at least 1,000 feet required obstuction clearance. The MVA in the final approach segment is 2400 feet south of Detroit Metropolitan Wayne County Airport.
- (b) Phraseology "TRAFFIC ALERT:" If an aircraft enters the "NO TRANSGRESSION ZONE (NTZ)," the controller will breakout the threatened aircraft on the adjacent approach. The phraseology for the breakout will be:
  - "TRAFFIC ALERT, (aircraft call sign) TURN (left/right) IMMEDIATELY, HEADING (degrees), CLIMB/DESCEND AND MAINTAIN (altitude)".
- 4. ILS Navigation: Descending on the ILS glideslope ensures complying with any charted crossing restrictions.

Special pilot training required. Pilots who are unable to participate, or dispatchers on their behalf, must contact the FAA Command Center prior to departure (1-800-333-4286 or 703-904-4452) to obtain an arrival reservation. Non-participating pilots enroute to DTW as an alternate, or trained pilots that are unexpectedly unable to participate due to in-flight circumstances will be afforded appropriate arrival services as operational conditions permit. Non-participating pilots shall notify the Cleveland ARTCC as soon as practical, but at least 100 miles from DTW.

(SIMULTANEOUS CLOSE PARALLEL)

DETROIT, MICHIGAN DETROIT METROPOLITAN WAYNE COUNTY (DTW) EC-1, 26 AUG 2010 to 23 SEP 2010

41°13′N - 83°21′W



ILS PRM RWY 3R (CAT III) (SIMULTANEOUS CLOSE PARALLEL)

# (SIMULTANEOUS CLOSE PARALLEL)

## ATTENTION ALL USERS OF ILS PRECISION RUNWAY MONITOR (PRM)

Condensed Briefing Point:

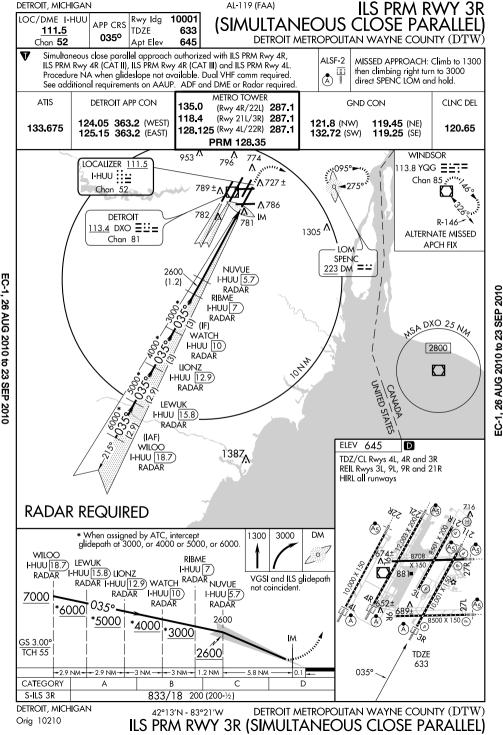
- When instructed, immediately switch to the tower frequency and select the monitor frequency audio.
- 1. ATIS. When the ATIS broadcast advises that simultaneous ILS/PRM approaches are in progress, pilots should brief to fly the ILS/PRM 3R approach. If later advised to expect an ILS 3R approach, the ILS/PRM 3R chart may be used after completing the following briefina items:
  - (a) Minimums and missed approach procedures are unchanged. (b) Monitor frequency no longer required.
  - (c) A lower glideslope intercept altitude may be assigned when advised to expect ILS 3R approach.
- 2. Dual VHF Communication required. To avoid blocked transmissions, each runway will have two frequencies, a primary and a monitor frequency. The tower controller will transmit on both frequencies. The Monitor controller's transmissions, if needed, will override both frequencies. Pilots will ONLY transmit on the tower controller's frequency, but will listen to both frequencies. Select the monitor frequency audio only when instructed by ATC to contact the tower. The volume levels should be set about the same on both radios so that the pilots will be able to hear transmissions on at least one frequency if the other is blocked.
- 3. All "Breakouts" are to be hand flown to assure that the maneuver is accomplished in the shortest amount of time. Pilots, when directed by ATC to break off an approach, must assume that an aircraft is blundering toward their course and a breakout must be initiated immediately.
  - (a) ATC Directed "Breakouts:" ATC directed breakouts will consist of a turn and a climb or descent. Pilots must always initiate the breakout in response to an air traffic controller instruction. Controllers will give a descending breakout only when there are no other reasonable options available, but in no case will the descent be below minimum vectoring altitude (MVA) which provides at least 1,000 feet required obstuction clearance. The MVA in the final approach segment is 2400 feet south of Detroit Metropolitan Wayne County Airport.
  - (b) Phraseology "TRAFFIC ALERT:" If an aircraft enters the "NO TRANSGRESSION ZONE (NTZ)," the controller will breakout the threatened aircraft on the adjacent approach. The phraseology for the breakout will be:
    - "TRAFFIC ALERT, (aircraft call sign) TURN (left/right) IMMEDIATELY, HEADING (degrees), CLIMB/DESCEND AND MAINTAIN (altitude)".
- 4. ILS Navigation: Descending on the ILS glideslope ensures complying with any charted crossing restrictions.

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DETROIT, MICHIGAN

EC-1, 26 AUG 2010 to 23 SEP 2010

41°13′N - 83°21′W



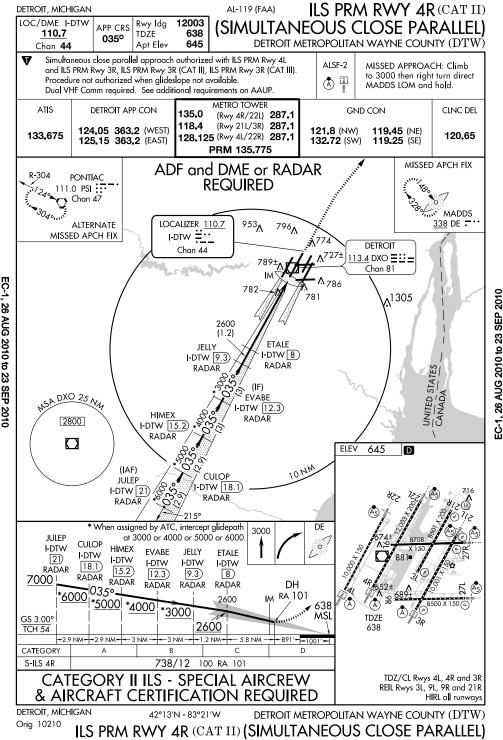
## (SIMULTANEOUS CLOSE PARALLEL)

ATTENTION ALL USERS OF ILS PRECISION RUNWAY MONITOR (PRM)

Condensed Briefing Point:

EC-1, 26 AUG 2010 to 23 SEP 2010

- When instructed, immediately switch to the tower frequency and select the monitor frequency audio.
- 1. ATIS. When the ATIS broadcast advises that simultaneous ILS/PRM approaches are in progress, pilots should brief to fly the ILS/PRM 3R approach. If later advised to expect an ILS 3R approach, the ILS/PRM 3R chart may be used after completing the following briefina items:
  - (a) Minimums and missed approach procedures are unchanged. (b) Monitor frequency no longer required.
  - (c) A lower glideslope intercept altitude may be assigned when advised to expect ILS 3R approach.
- 2. Dual VHF Communication required. To avoid blocked transmissions, each runway will have two frequencies, a primary and a monitor frequency. The tower controller will transmit on both frequencies. The Monitor controller's transmissions, if needed, will override both frequencies. Pilots will ONLY transmit on the tower controller's frequency, but will listen to both frequencies. Select the monitor frequency audio only when instructed by ATC to contact the tower. The volume levels should be set about the same on both radios so that the pilots will be able to hear transmissions on at least one frequency if the other is blocked.
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  - (a) ATC Directed "Breakouts:" ATC directed breakouts will consist of a turn and a climb or descent. Pilots must always initiate the breakout in response to an air traffic controller instruction. Controllers will give a descending breakout only when there are no other reasonable options available, but in no case will the descent be below minimum vectoring altitude (MVA) which provides at least 1,000 feet required obstuction clearance. The MVA in the final approach segment is 2400 feet south of Detroit Metropolitan Wayne County Airport.
  - (b) Phraseology "TRAFFIC ALERT:" If an aircraft enters the "NO TRANSGRESSION ZONE (NTZ)," the controller will breakout the threatened aircraft on the adjacent approach. The phraseology for the breakout will be:
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- 4. ILS Navigation: Descending on the ILS glideslope ensures complying with any charted crossing restrictions.



### DETROIT METROPOLITAN WAYNE COUNTY (DTW) (SIMULTANEOUS CLOSE PARALLEL)

AL-119 (FAA)

DETROIT, MICHIGAN

## ATTENTION ALL USERS OF ILS PRECISION RUNWAY MONITOR (PRM)

Condensed Briefing Point:

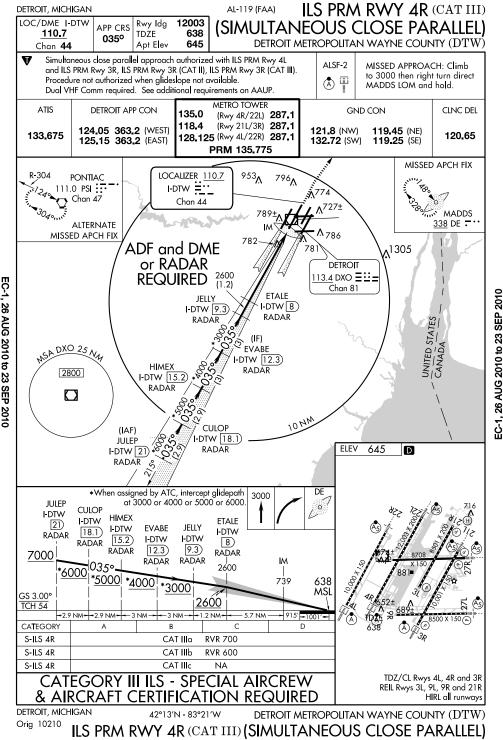
EC-1, 26 AUG 2010 to 23 SEP 2010

- When instructed, immediately switch to the tower frequency and select the monitor frequency audio.
- 1. ATIS. When the ATIS broadcast advises that simultaneous ILS/PRM approaches are in progress, pilots should brief to fly the ILS/PRM 4R approach. If later advised to expect an ILS 4R approach, the ILS/PRM 4R chart may be used after completing the following briefina items:
  - (a) Minimums and missed approach procedures are unchanged.
  - (b) Monitor frequency no longer required. (c) A lower glideslope intercept altitude may be assigned when advised to expect ILS 4R approach.
- 2. Dual VHF Communication required. To avoid blocked transmissions, each runway will have two frequencies, a primary and a monitor frequency. The tower controller will transmit on both frequencies. The Monitor controller's transmissions, if needed, will override both frequencies. Pilots will ONLY transmit on the tower controller's frequency, but will listen to both frequencies. Select the monitor frequency audio only when instructed by ATC to contact the tower. The volume levels should be set about the same on both radios so that the pilots will be able to hear transmissions on at least one frequency if the other is blocked.
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  - (b) Phraseology "TRAFFIC ALERT:" If an aircraft enters the "NO TRANSGRESSION ZONE (NTZ)," the controller will breakout the threatened aircraft on the adjacent approach. The phraseology for the breakout will be:
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(SIMULTANEOUS CLOSE PARALLEL) 41°13′N - 83°21′W ILS PRM RWY 4R (CAT II) Orig 09183

DETROIT, MICHIGAN



### DETROIT METROPOLITAN WAYNE COUNTY (DTW) AL-119 (FAA)

DETROIT, MICHIGAN

# (SIMULTANEOUS CLOSE PARALLEL)

ATTENTION ALL USERS OF ILS PRECISION RUNWAY MONITOR (PRM)

Condensed Briefing Point:

 When instructed, immediately switch to the tower frequency and select the monitor frequency audio.

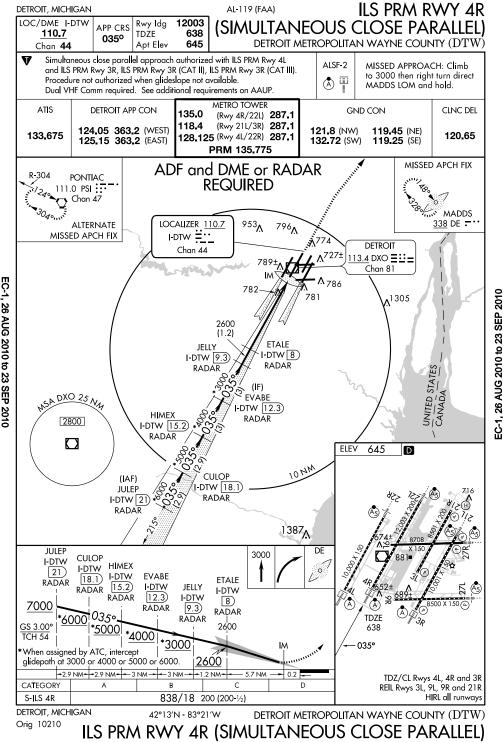
- 1. ATIS. When the ATIS broadcast advises that simultaneous ILS/PRM approaches are in progress, pilots should brief to fly the ILS/PRM 4R approach. If later advised to expect an ILS 4R approach, the ILS/PRM 4R chart may be used after completing the following briefina items:
  - (a) Minimums and missed approach procedures are unchanged.
  - (b) Monitor frequency no longer required. (c) A lower glideslope intercept altitude may be assigned when advised to expect ILS 4R approach.
- 2. Dual VHF Communication required. To avoid blocked transmissions, each runway will have two frequencies, a primary and a monitor frequency. The tower controller will transmit on both frequencies. The Monitor controller's transmissions, if needed, will override both frequencies. Pilots will ONLY transmit on the tower controller's frequency, but will listen to both frequencies. Select the monitor frequency audio only when instructed by ATC to contact the tower. The volume levels should be set about the same on both radios so that the pilots will be able to hear transmissions on at least one frequency if the other is blocked.
- 3. All "Breakouts" are to be hand flown to assure that the maneuver is accomplished in the shortest amount of time. Pilots, when directed by ATC to break off an approach, must assume that an aircraft is blundering toward their course and a breakout must be initiated immediately.
- (a) ATC Directed "Breakouts:" ATC directed breakouts will consist of a turn and a climb or descent. Pilots must always initiate the breakout in response to an air traffic controller instruction. Controllers will give a descending breakout only when there are no other reasonable options available, but in no case will the descent be below minimum vectoring altitude (MVA) which provides at least 1,000 feet required obstuction clearance. The MVA in the final approach segment is 2400 feet south of Detroit Metropolitan Wayne County Airport.
- (b) Phraseology "TRAFFIC ALERT:" If an aircraft enters the "NO TRANSGRESSION ZONE (NTZ)," the controller will breakout the threatened aircraft on the adjacent approach. The phraseology for the breakout will be:
- "TRAFFIC ALERT, (aircraft call sign) TURN (left/right) IMMEDIATELY, HEADING (degrees), CLIMB/DESCEND AND MAINTAIN (altitude)".
- 4. ILS Navigation: Descending on the ILS glideslope ensures complying with any charted crossing restrictions.

Special pilot training required. Pilots who are unable to participate, or dispatchers on their behalf, must contact the FAA Command Center prior to departure (1-800-333-4286 or 703-904-4452) to obtain an arrival reservation. Non-participating pilots enroute to DTW as an alternate, or trained pilots that are unexpectedly unable to participate due to in-flight circumstances will be afforded appropriate arrival services as operational conditions permit. Non-participating pilots shall notify the Cleveland ARTCC as soon as practical, but at least 100 miles from DTW.

(SIMULTANEOUS CLOSE PARALLEL)

EC-1, 26 AUG 2010 to 23 SEP 2010

DETROIT, MICHIGAN



DETROIT METROPOLITAN WAYNE COUNTY (DTW)

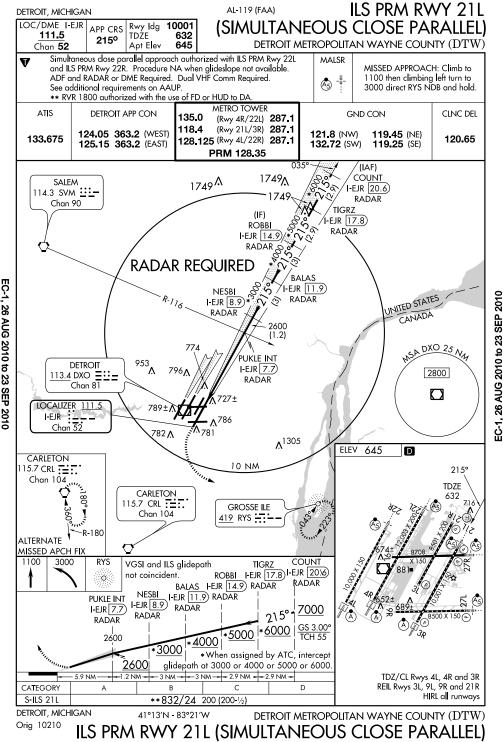
#### (SIMULTANEOUS CLOSE PARALLEL) AL-119 (FAA) DETROIT, MICHIGAN

### ATTENTION ALL USERS OF ILS PRECISION RUNWAY MONITOR (PRM)

Condensed Briefing Point:

EC-1, 26 AUG 2010 to 23 SEP 2010

- When instructed, immediately switch to the tower frequency and select the monitor frequency audio.
- 1. ATIS. When the ATIS broadcast advises that simultaneous ILS/PRM approaches are in progress, pilots should brief to fly the ILS/PRM 4R approach. If later advised to expect an ILS 4R approach, the ILS/PRM 4R chart may be used after completing the following briefina items:
  - (a) Minimums and missed approach procedures are unchanged.
  - (b) Monitor frequency no longer required.
  - (c) A lower glideslope intercept altitude may be assigned when advised to expect ILS 4R approach.
- 2. Dual VHF Communication required. To avoid blocked transmissions, each runway will have two frequencies, a primary and a monitor frequency. The tower controller will transmit on both frequencies. The Monitor controller's transmissions, if needed, will override both frequencies. Pilots will ONLY transmit on the tower controller's frequency, but will listen to both frequencies. Select the monitor frequency audio only when instructed by ATC to contact the tower. The volume levels should be set about the same on both radios so that the pilots will be able to hear transmissions on at least one frequency if the other is blocked.
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  - (a) ATC Directed "Breakouts:" ATC directed breakouts will consist of a turn and a climb or descent. Pilots must always initiate the breakout in response to an air traffic controller instruction. Controllers will give a descending breakout only when there are no other reasonable options available, but in no case will the descent be below minimum vectoring altitude (MVA) which provides at least 1,000 feet required obstuction clearance. The MVA in the final approach segment is 2400 feet south of Detroit Metropolitan Wayne County Airport.
  - (b) Phraseology "TRAFFIC ALERT:" If an aircraft enters the "NO TRANSGRESSION ZONE (NTZ)," the controller will breakout the threatened aircraft on the adjacent approach. The phraseology for the breakout will be:
  - "TRAFFIC ALERT, (aircraft call sign) TURN (left/right) IMMEDIATELY, HEADING (degrees), CLIMB/DESCEND AND MAINTAIN (altitude)".
- 4. ILS Navigation: Descending on the ILS glideslope ensures complying with any charted crossing restrictions.



## (SIMULTANEOUS CLOSE PARALLEL)

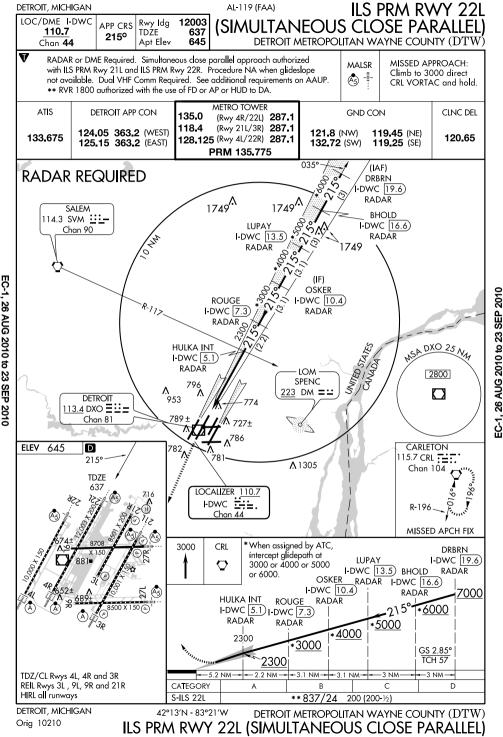
## ATTENTION ALL USERS OF ILS PRECISION RUNWAY MONITOR (PRM)

AL-119 (FAA)

Condensed Briefing Point:

EC-1, 26 AUG 2010 to 23 SEP 2010

- When instructed, immediately switch to the tower frequency and select the monitor frequency audio.
- 1. ATIS. When the ATIS broadcast advises that simultaneous ILS/PRM approaches are in progress, pilots should brief to fly the ILS/PRM 21L approach. If later advised to expect an ILS 21L approach, the ILS/PRM 21L chart may be used after completing the following briefina items:
  - (a) Minimums and missed approach procedures are unchanged. (b) Monitor frequency no longer required.
  - (c) A lower glideslope intercept altitude may be assigned when advised to expect ILS 21L approach.
- 2. Dual VHF Communication required. To avoid blocked transmissions, each runway will have two frequencies, a primary and a monitor frequency. The tower controller will transmit on both frequencies. The Monitor controller's transmissions, if needed, will override both frequencies. Pilots will ONLY transmit on the tower controller's frequency, but will listen to both frequencies. Select the monitor frequency audio only when instructed by ATC to contact the tower. The volume levels should be set about the same on both radios so that the pilots will be able to hear transmissions on at least one frequency if the other is blocked.
- 3. All "Breakouts" are to be hand flown to assure that the maneuver is accomplished in the shortest amount of time. Pilots, when directed by ATC to break off an approach, must assume that an aircraft is blundering toward their course and a breakout must be initiated immediately. (a) ATC Directed "Breakouts:" ATC directed breakouts will consist of a turn and a climb or
  - descent. Pilots must always initiate the breakout in response to an air traffic controller instruction. Controllers will give a descending breakout only when there are no other reasonable options available, but in no case will the descent be below minimum vectoring altitude (MVA) which provides at least 1,000 feet required obstuction clearance. The MVA in the final approach segment is 2800 feet north of Detroit Metropolitan Wayne County Airport.
  - (b) Phraseology "TRAFFIC ALERT:" If an aircraft enters the "NO TRANSGRESSION ZONE (NTZ)", the controller will breakout the threatened aircraft on the adjacent approach. The phraseology for the breakout will be:
  - "TRAFFIC ALERT, (aircraft call sign) TURN (left/right) IMMEDIATELY, HEADING (degrees), CLIMB/DESCEND AND MAINTAIN (altitude)".
- 4. ILS Navigation: Descending on the ILS glideslope ensures complying with any charted crossing restrictions.



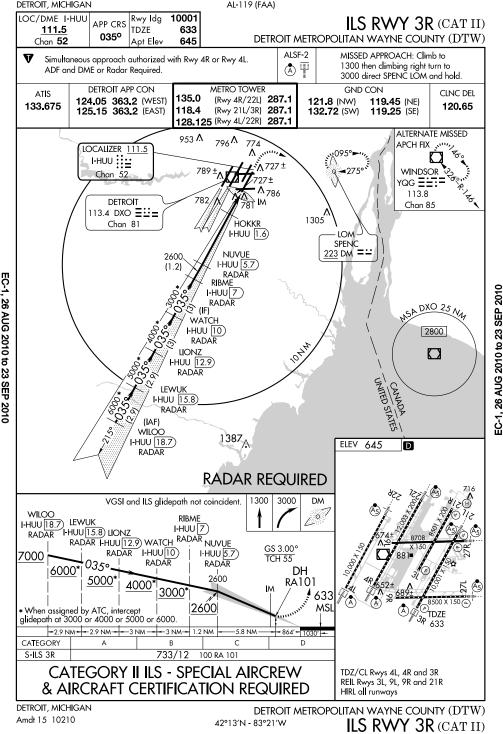
### DETROIT METROPOLITAN WAYNE COUNTY (DTW) (SIMULTANEOUS CLOSE PARALLEL)

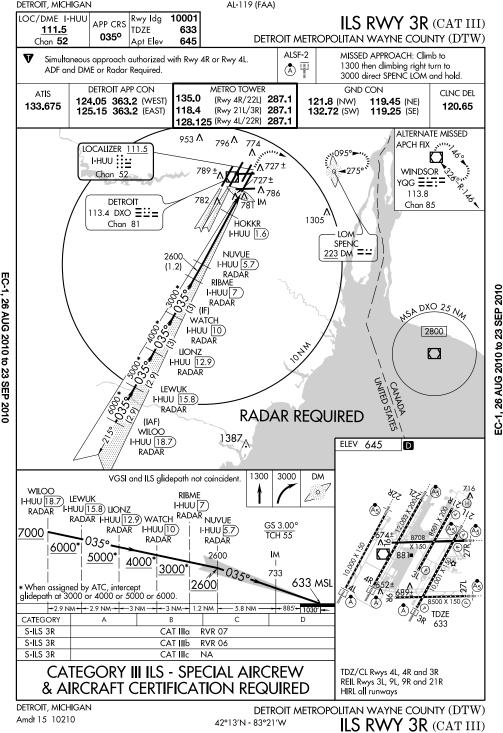
## ATTENTION ALL USERS OF ILS PRECISION RUNWAY MONITOR (PRM)

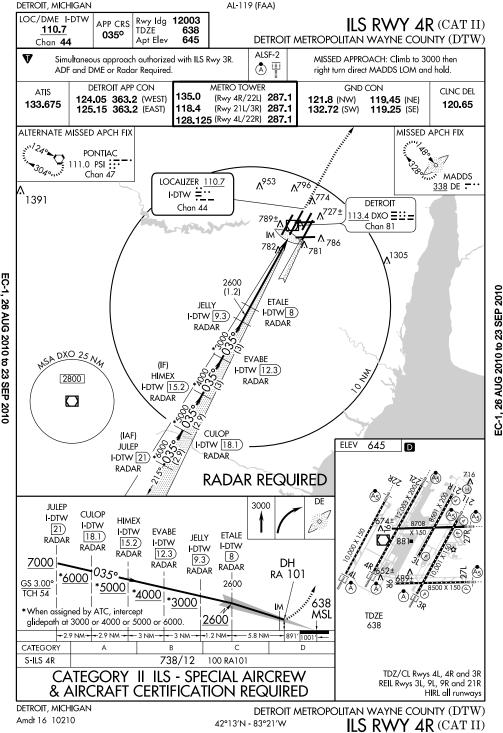
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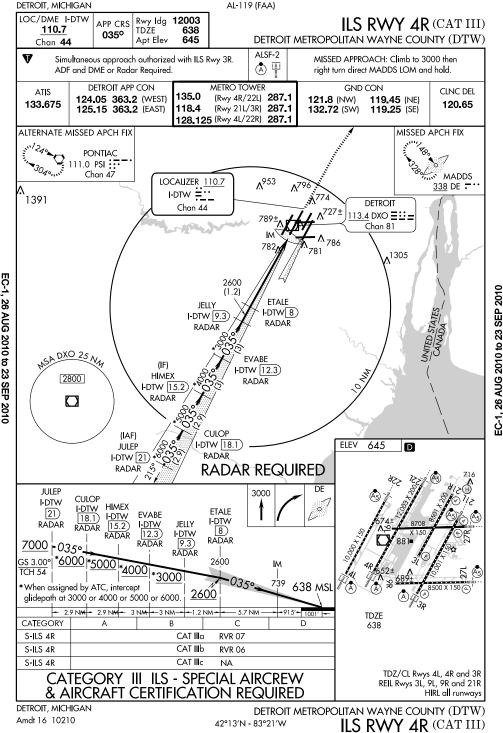
EC-1, 26 AUG 2010 to 23 SEP 2010

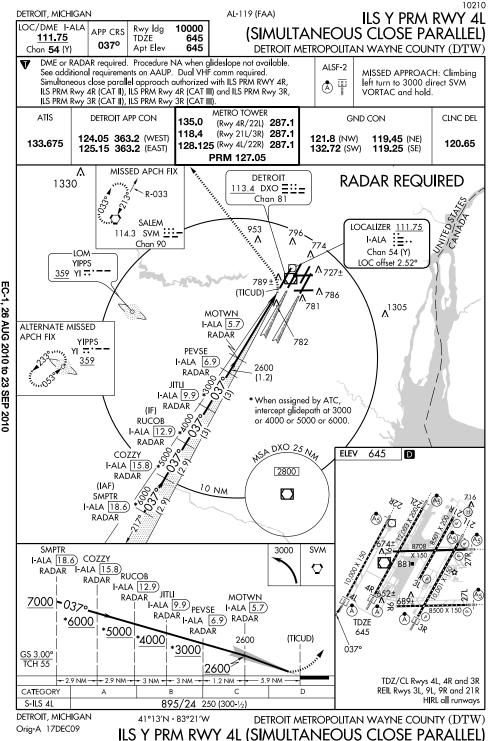
- When instructed, immediately switch to the tower frequency and select the monitor frequency audio.
- 1. ATIS. When the ATIS broadcast advises that simultaneous ILS/PRM approaches are in progress, pilots should brief to fly the ILS/PRM 22L approach. If later advised to expect an ILS 22L approach, the ILS/PRM 22L chart may be used after completing the following briefina items:
  - (a) Minimums and missed approach procedures are unchanged. (b) Monitor frequency no longer required.
  - (c) A lower glideslope intercept altitude may be assigned when advised to expect ILS 22L approach.
- 2. Dual VHF Communication required. To avoid blocked transmissions, each runway will have two frequencies, a primary and a monitor frequency. The tower controller will transmit on both frequencies. The Monitor controller's transmissions, if needed, will override both frequencies. Pilots will ONLY transmit on the tower controller's frequency, but will listen to both frequencies. Select the monitor frequency audio only when instructed by ATC to contact the tower. The volume levels should be set about the same on both radios so that the pilots will be able to hear transmissions on at least one frequency if the other is blocked.
- 3. All "Breakouts" are to be hand flown to assure that the maneuver is accomplished in the shortest amount of time. Pilots, when directed by ATC to break off an approach, must assume that an aircraft is blundering toward their course and a breakout must be initiated immediately.
- (a) ATC Directed "Breakouts:" ATC directed breakouts will consist of a turn and a climb or descent. Pilots must always initiate the breakout in response to an air traffic controller instruction. Controllers will give a descending breakout only when there are no other reasonable options available, but in no case will the descent be below minimum vectoring altitude (MVA) which provides at least 1,000 feet required obstuction clearance. The MVA in the final approach segment is 2800 feet north of Detroit Metropolitan Wayne County Airport.
- (b) Phraseology "TRAFFIC ALERT:" If an aircraft enters the "NO TRANSGRESSION ZONE (NTZ)", the controller will breakout the threatened aircraft on the adjacent approach. The phraseology for the breakout will be:
- "TRAFFIC ALERT, (aircraft call sign) TURN (left/right) IMMEDIATELY, HEADING (degrees), CLIMB/DESCEND AND MAINTAIN (altitude)".
- 4. ILS Navigation: Descending on the ILS glideslope ensures complying with any charted crossing restrictions.











## (SIMULTANEOUS CLOSE PARALLEL)

### ATTENTION ALL USERS OF ILS PRECISION RUNWAY MONITOR (PRM)

Condensed Briefing Point:

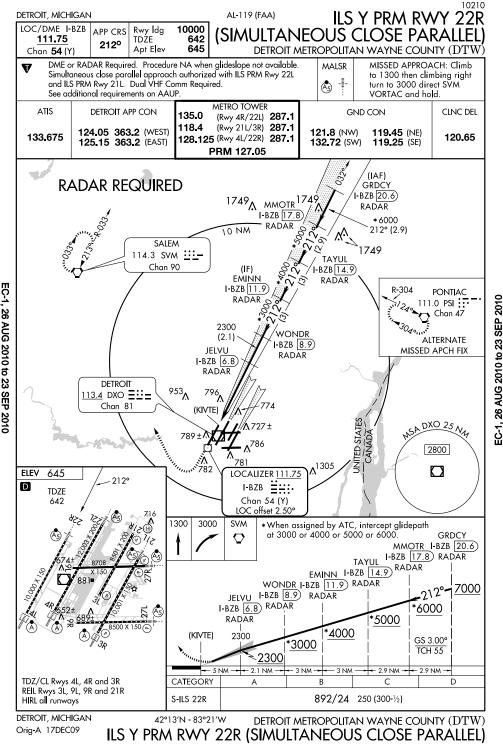
- When instructed, immediately switch to the tower frequency and select the monitor frequency audio.
- Exit the runway at Taxiway A7 (6700 ft) or A8 (7700 ft) whenever practical, see Taxiway Use below.
- 1. ATIS. When the ATIS broadcast advises that simultaneous ILS/PRM approaches are in progress, pilots should brief to fly the ILS/PRM 4L approach. If later advised to expect an ILS 4L Yankee approach, the ILS/PRM 4L chart may be used after completing the following briefing items:
  - (a) Minimums and missed approach procedures are unchanged.
  - (b) Monitor frequency no longer required.
  - (c) A lower glideslope intercept altitude may be assigned when advised to expect ILS 4L Yankee approach.
- Dual VHF Communication required. To avoid blocked transmissions, each runway will have two frequencies, a primary and a monitor frequency. The tower controller will transmit on both frequencies. The Monitor controller's transmissions, if needed, will override both frequencies. Pilots will ONLY transmit on the tower controller's frequency, but will listen to both frequencies. Select the monitor frequency audio only when instructed by ATC to contact the tower. The volume levels should be set about the same on both radios so that the pilots will be able to hear transmissions on at least one frequency if the other is blocked.
  - All "Breakouts" are to be hand flown to assure that the maneuver is accomplished in the shortest amount of time. Pilots, when directed by ATC to break off an approach, must assume that an aircraft is blundering toward their course and a breakout must be initiated immediately.
  - (a) ATC Directed "Breakouts:" ATC directed breakouts will consist of a turn and a climb or descent. Pilots must always initiate the breakout in response to an air traffic controller instruction. Controllers will give a descending breakout only when there are no other reasonable options available, but in no case will the descent be below minimum vectoring altitude (MVA) which provides at least 1,000 feet required obstuction clearance. The MVA in the final approach segment is 2400 feet south of Detroit Metropolitan Wayne County Airport.
  - (b) Phraseology "TRAFFIC ALERT:" If an aircraft enters the "NO TRANSGRESSION ZONE (NTZ)," the controller will breakout the threatened aircraft on the adjacent approach. The phraseology for the breakout will be:
  - "TRAFFIC ALERT, (aircraft call sign) TURN (left/right) IMMEDIATELY, HEADING (degrees), CLIMB/DESCEND AND MAINTAIN (altitude)".
  - ILS Navigation: Descending on the ILS glideslope ensures complying with any charted crossing restrictions.
- Taxiway Use: Because of the location of the offset LOC critical area, whenever practical, pilots should exit the runway at taxiway A7, 6700 ft or A8, 7700 ft. If feasible, do not stop on taxiways A9 and A10, or on taxiway A northeast of taxiway V.

Special pilot training required. Pilots who are unable to participate, or dispatchers on their behalf, must contact the FAA Command Center prior to departure (1-800-333-4286 or 703-904-4452) to obtain an arrival reservation. Non-participating pilots enroute to DTW as an alternate, or trained pilots that are unexpectedly unable to participate due to in-flight circumstances will be afforded appropriate arrival services as operational conditions permit. Non-participating pilots shall notify the Cleveland ARTCC as soon as practical, but at least 100 miles from DTW.

(SIMULTANEOUS CLOSE PARALLEL)

Orig-A 17DEC09

DETROIT, MICHIGAN



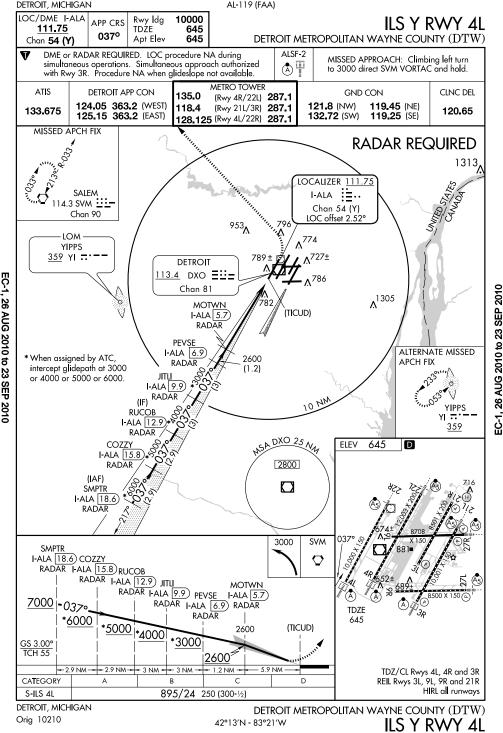
# ATTENTION ALL USERS OF ILS PRECISION RUNWAY MONITOR (PRM)

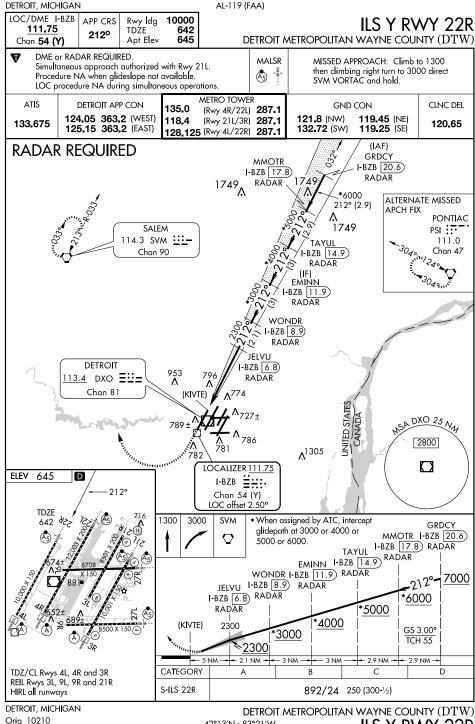
AL-119 (FAA)

Condensed Briefing Point:

- When instructed, immediately switch to the tower frequency and select the monitor frequency audio.
- Exit the runway at Taxiway A4 (6700 ft) or A3 (7700 ft) whenever practical, see Exit Taxiway Use below.
- 1. ATIS. When the ATIS broadcast advises that simultaneous ILS/PRM approaches are in progress, pilots should brief to fly the ILS/PRM 22R approach. If later advised to expect an ILS 22R Yankee approach, the ILS/PRM 22R chart may be used after completing the following briefing items:
  - (a) Minimums and missed approach procedures are unchanged.
  - (b) Monitor frequency no longer required.
  - (c) A lower glideslope intercept altitude may be assigned when advised to expect ILS 22R Yankee approach.
- 2. Dual VHF Communication required. To avoid blocked transmissions, each runway will have two frequencies, a primary and a monitor frequency. The tower controller will transmit on both frequencies. The Monitor controller's transmissions, if needed, will override both frequencies. Pilots will ONLY transmit on the tower controller's frequency, but will listen to both frequencies. Select the monitor frequency audio only when instructed by ATC to contact the tower. The volume levels should be set about the same on both radios so that the pilots will be able to hear transmissions on at least one frequency if the other is blocked.
  - All "Breakouts" are to be hand flown to assure that the maneuver is accomplished in the shortest amount of time. Pilots, when directed by ATC to break off an approach, must assume that an aircraft is blundering toward their course and a breakout must be initiated immediately.
    - (a) ATC Directed "Breakouts:" ATC directed breakouts will consist of a turn and a climb or descent. Pilots must always initiate the breakout in response to an air traffic controller instruction. Controllers will give a descending breakout only when there are no other reasonable options available, but in no case will the descent be below minimum vectoring altitude (MVA) which provides at least 1,000 feet required obstuction clearance. The MVA in the final approach segment is 2800 feet north of Detroit Metropolitan Wayne County Airport.
    - (b) Phraseology "TRAFFIC ALERT:" If an aircraft enters the "NO TRANSGRESSION ZONE (NTZ)," the controller will breakout the threatened aircraft on the adjacent approach. The phraseology for the breakout will be:
    - "TRAFFIC ALERT, (aircraft call sign) TURN (left/right) IMMEDIATELY, HEADING (degrees), CLIMB/DESCEND AND MAINTAIN (altitude)".
  - 4. ILS Navigation: Descending on the ILS glideslope ensures complying with any charted crossing restrictions.
- 5. Exit Taxiway Use: Because of the location of the offset LOC critical area, whenever possible, pilots should exit the runway at taxiway A4, 6700 ft or A3, 7700 ft. If practical, do not stop on taxiway A between taxiway A3 and taxiway Q.

Special pilot training required. Pilots who are unable to participate, or dispatchers on their behalf, must contact the FAA Command Center prior to departure (1-800-333-4286 or 703-904-4452) to obtain an arrival reservation. Non-participating pilots enroute to DTW as an alternate, or trained pilots that are unexpectedly unable to participate due to in-flight circumstances will be afforded appropriate arrival services as operational conditions permit. Non-participating pilots shall notify the Cleveland ARTCC as soon as practical, but at least 100 miles from DTW.

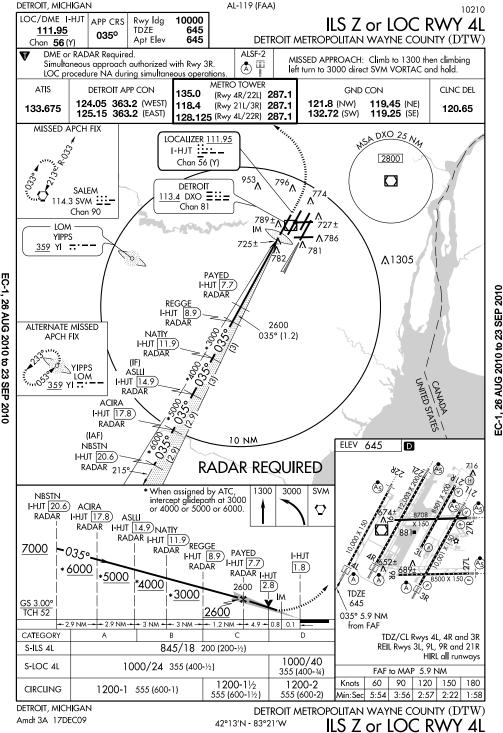


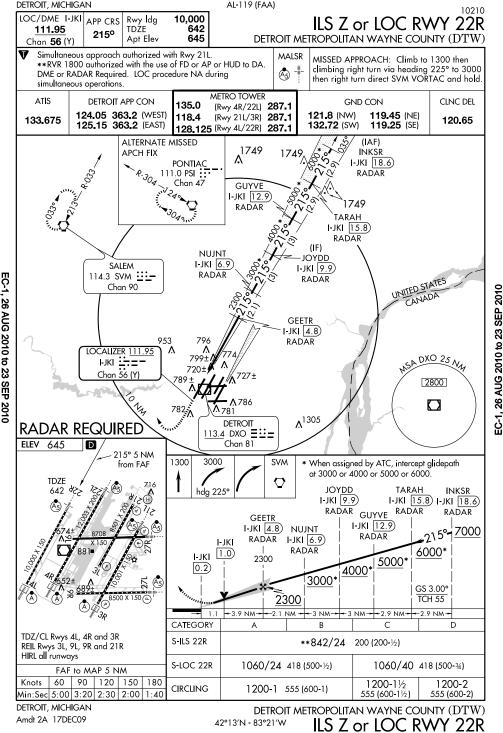


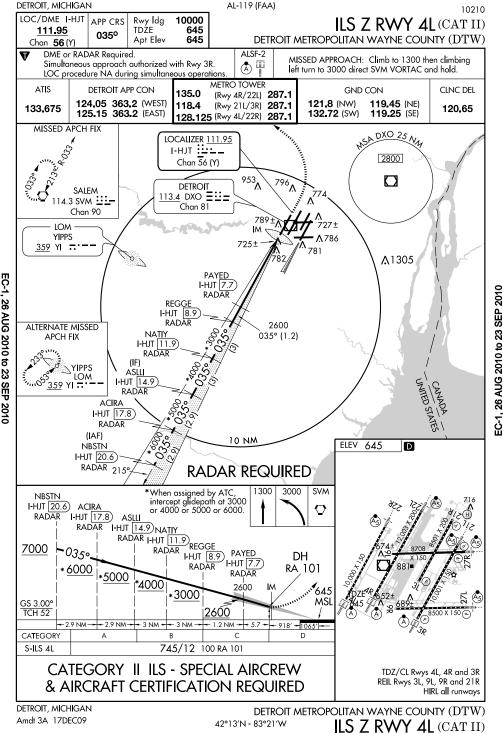
Orig 10210

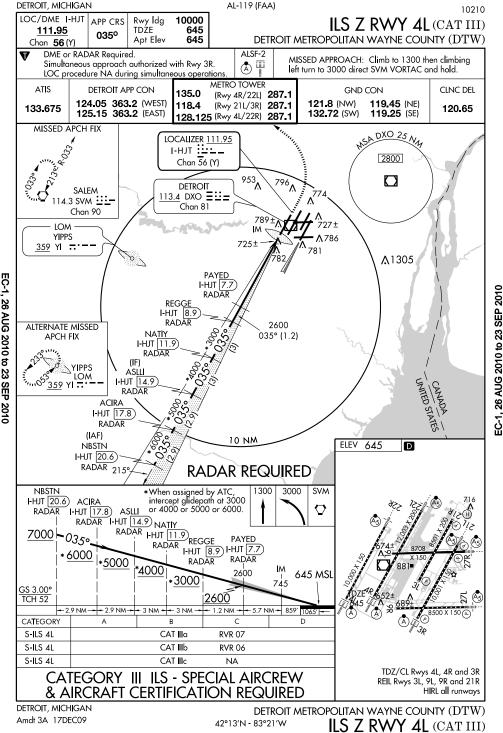
EC-1, 26 AUG 2010 to 23 SEP 2010

42°13′N - 83°21′W









(MIZAR.MIZAR3) 08325 DETROIT METROPOLITAN WAYNE COUNTY MIZAR THREE ARRIVAL ST-119 (FAA) DETROIT, MICHIGAN DETROIT APP CON **RAZIM** DETROIT 124.975 363.2 N41°58.15' <u>113.4</u> DXO **Ξ∷** ATIS 133.675 W83°47.55' Chan 81 VERTICAL NAVIGATION PLANNING INFORMATION TURBOJETS/TURBOPROPS: JACKSON When landing Rwy 3, 109.6 JXN ::: Chan 33 expect to cross at or below 10,000 feet. RANDL N41°45.70′ W84°12.32′ 3000 LITCHFIELD 13/0 111.2 LFD <u>:-</u>:: CARLETON Chan 49 115.7 CRL :::. N42°03.75' 35 3000 Chan 104 W84°45.91' 066° L-28, H-5-10 (12) MIZAR N41°49.55' **NAKES** W84°02.39' N41°40.17' 360° (29) VERTICAL NAVIGATION W84°26.52' MOO PLANNING INFORMATION Expect to cross at 12,000 feet. 81 Turboprops: Expect to cross at 11,000 feet. **ROTER** A R N41°10.94′ W84°25.71′ FORT WAYNE 117.8 FWA :== TORRR Chan 125 N40°44.50' N40°58.75′-W85°11.28′ W84°24.98' MAA 33000 L-27, H-5-10

DAYTON TRANSITION (DQN.MIZAR3): From over DQN VOR/DME via DQN R-360 and JXN R-184 to NAKES INT, then via CRL VORTAC R-246 to MIZAR

FORT WAYNE TRANSITION (FWA.MIZAR3): From over FWA VORTAC via FWA

DAYTON 114.5 DQN **Ξ∷·-**Chan 92

N40°00.98'-W84°23.81

L-27, H-10

R-039 to NAKES INT, then via CRL R-246 to MIZAR DME. Thence. . . . LITCHFIELD TRANSITION (LFD.MIZAR3): From over LFD VOR/DME via LFD R-131

to RANDL INT, then via CRL R-246 to MIZAR DME. Thence. . . . . . . . From over MIZAR DME via DXO VOR/DME R-239 to RAZIM DME. Expect

radar vectors to final approach course.

MIZAR THREE ARRIVAL (MIZAR.MIZAR3) 08325

NOTE: DQN Transition for use by

Departures at or below FL230 only

and ATC use as assigned.

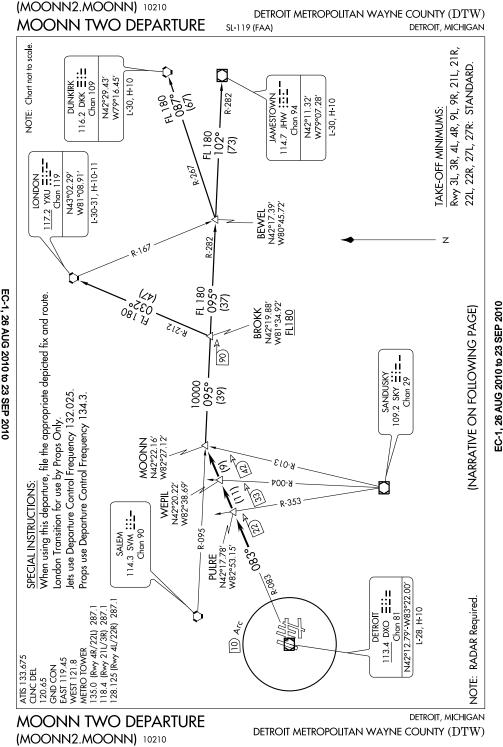
CVG/DAY/SDF/LEX Terminal Area

EC-1, 26 AUG 2010 to 23 SEP 2010

DETROIT, MICHIGAN DETROIT METROPOLITAN WAYNE COUNTY

NOTE: DME REQUIRED

NOTE: Chart not to scale.



MOONN TWO DEPARTURE



TAKE-OFF ALL RUNWAYS: Climb via assigned heading for radar vectors to intercept DXO VOR/DME R-083 to MOONN INT, then via (transition). Jets maintain 10,000 feet, cross DXO VOR/DME 10 DME at or above 5,000 feet for noise abatement. If unable to comply, advise ATC prior to departure. Props maintain 4,000 feet or lower assigned altitude. Expect clearance to filed altitude/ flight level ten (10) minutes after departure.

DUNKIRK TRANSITION (MOONN2.DKK): From over MOONN INT via SVM R-095 to BROKK INT, then via SVM R-095 and JHW R-282 to BEWEL INT, then via DKK R-267 to DKK VORTAC.

JAMESTOWN TRANSITION (MOONN2.JHW): From over MOONN INT via SVM R-095 to BROKK INT, then via SVM R-095 and JHW R-282 to BEWEL INT, then via JHW R-282 to JHW VOR/DME.

LONDON TRANSITION (MOONN2.YXU): From over MOONN INT via SVM R-095 to BROKK INT, then via YXU R-212 to YXU VORTAC.

# TAKE-OFF OBSTACLES

Rwy 3R: Headwall 399' from DER, 566' right of centerline, 17' AGL/647' MSL.

Rwy 4L: Multiple transmission towers 1516' from DER, 827' left of centerline, up to 60' AGL/690' MSL. Multiple antennas 2751' from DER, 762' right of centerline, up to 84'

AGL/714' MSL.

Rwy 4R: Antenna on building 3348' from DER, 1301' left of centerline, 100' AGL/736' MSL.

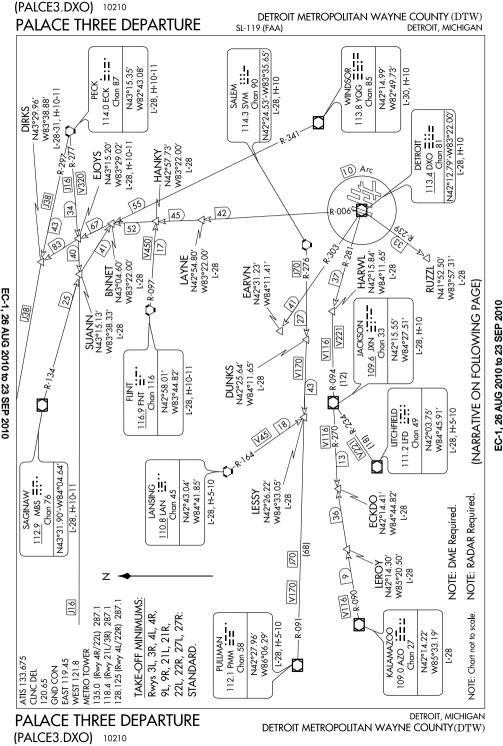
Rwy 9L: Multiple trees 968' to 2519' from DER, 462' left of centerline and

1173' right of centerline, up to 85' AGL/715' MSL. Rwy 9R: Tree 1837' from DER, 947' right of centerline, 50' AGL/686' MSL.

Rwy 21L: Multiple trees 1079' to 3910' from DER, 586' left of centerline and 1188' right of centerline, up to 100' AGL/733' MSL.

Rwy 22L: Multiple trees 794' to 3694' from DER, 611' right of centerline and 1381' left of centerline, up to 110' AGL/740' MSL.

Rwy 27R: Rod on ASR 4461' from DER, 464' left of centerline, 106' AGL/756' MSL.



DETROIT METROPOLITAN WAYNE COUNTY(DTW)

#### V

#### DEPARTURE ROUTE DESCRIPTION

TAKE-OFF ALL RUNWAYS: Climb via assigned heading for radar vectors to join the assigned Airway or Radial then proceed to the assigned departure fix, thence via the assigned route. Jets maintain 10,000 feet, cross the DXO VOR/DME 10 DME Arc at or above 5,000 feet for noise abatement. If unable to comply, advise ATC prior to departure. Props maintain 4,000 feet or lower assigned altitude. Expect clearance to filed altitude/flight level ten (10) minutes after departure.

#### SPECIAL INSTRUCTIONS:

When using this departure, file the appropriate depicted departure fix and route. Aircraft landing/overflying Lansing (LAN) or overflying Flint (FNT) at 10,000 feet or below, file via EARVN. Aircraft landing Flint (FNT) at 10,000 feet or below, file via LAYNE. Aircraft landing/overflying Toledo (TOL) at 10,000 feet or below, file via RUZZL. Aircraft over HARWL must file FL220 and below. Prop aircraft departing Rwy 21L/R and 22L/R westbound cross DXO 3.5 DME at or above 2500 MSL. If unable advise ATC prior to departure. Jets use Departure Control Frequency 125.525.

# TAKE-OFF OBSTACLES

Rwy 3R: Headwall 399' from DER, 566' right of centerline, 17' AGL/647' MSL. Rwy 4L: Multiple transmission towers 1516' from DER, 827' left of centerline,

up to 60' AGL/690' MSL.

Multiple antennas 2751' from DER, 762' right of centerline, up to 84'

Props use Departure Control Frequency 118.95.

AGL/714' MSL. Rwy 4R: Antenna on building 3348' from DER, 1301' left of centerline,

100' AGL/736' MSL. Multiple trees 968' to 2519' from DER, 462' left of centerline and

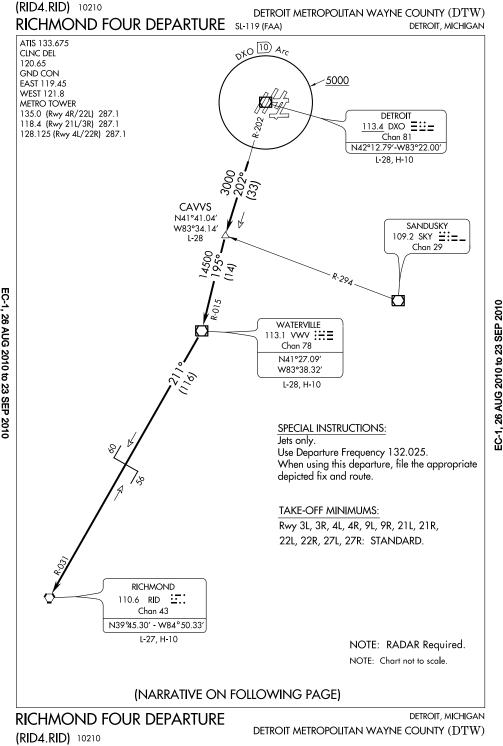
1173' right of centerline, up to 85' AGL/715' MSL.

Tree 1837' from DER, 947' right of centerline, 50' AGL/686' MSL. Rwy 21L: Multiple trees 1079' to 3910' from DER, 586' left of centerline and

1188' right of centerline, up to 100' AGL/733' MSL.

Rwy 22L: Multiple trees 794' to 3694' from DER, 611' right of centerline and 1381' left of centerline, up to 110' AGL/740' MSL.

Rwy 27R: Rod on ASR, 4461' from DER, 464' left of centerline, 106' AGL/756' MSL.



V

RICHMOND FOUR DEPARTURE

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF ALL RUNWAYS: Climb via assigned heading for radar vectors to intercept DXO VOR/DME R-202 to CAVVS INT/DXO 33 DME, then via VWV R-015 to VWV VOR/DME. Then right turn via VWV R-211 and RID R-031 to RID VORTAC. Maintain 10,000 feet, cross DXO 10 DME at or above 5,000 feet for noise abatement. If unable to comply, advise ATC prior to departure. Expect clearance to filed altitude/flight level ten (10) minutes after departure.

### TAKE-OFF OBSTACLES:

Rwy 3R: Headwall 399' from DER, 566' right of centerline, 17' AGL/647' MSL. Rwy 4L: Multiple transmission towers 1516' from DER, 827' left of centerline, up to 60' AGL/690' MSL.

Multiple antennas 2751' from DER, 762' right of centerline,

up to 84' AGL/714' MSL. Antenna on building 3348' from DER, 1301' left of centerline, Rwy 4R: 100' AGL/736' MŠL

Rwy 9L: Multiple trees 968' to 2519' from DER, 462' left of centerline and

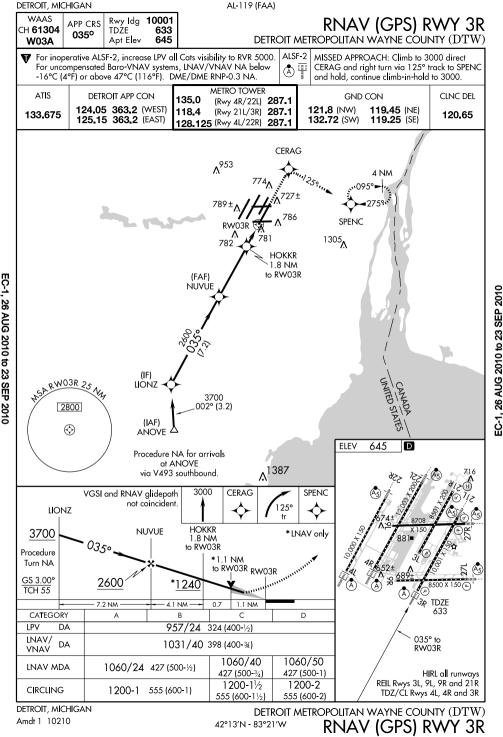
1173' right of centerline, up to 85' AGL/715' MSL. Tree 1837' from DER, 947' right of centerline, 50' AGL/686' MSL. Rwy 9R:

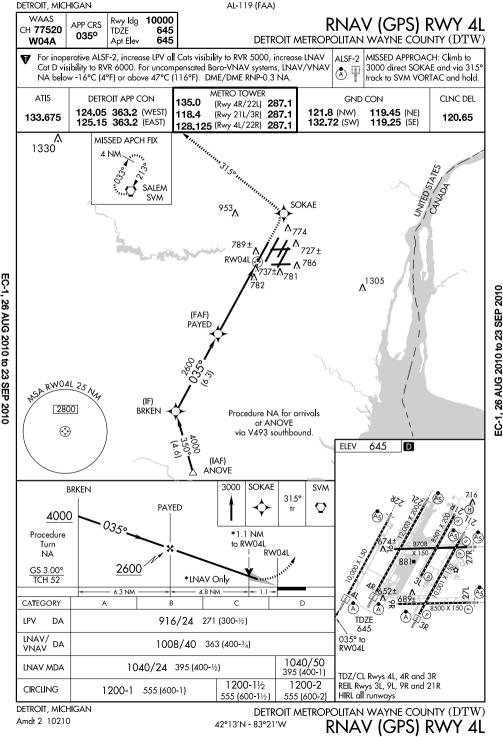
Rwy 21L: Multiple trees 1079' to 3910' from DER, 586' left of centerline

and 1188' right of centerline, up to 100' AGL/733' MSL. Multiple trees 794' to 3694' from DER, 611' right of centerline Rwy 22L:

and 1381' left of centerline, up to 110' AGL/740' MSL. Rwy 27R: Rod on ASR, 4461' from DER, 464' left of centerline,

106' AGL/756' MSL.





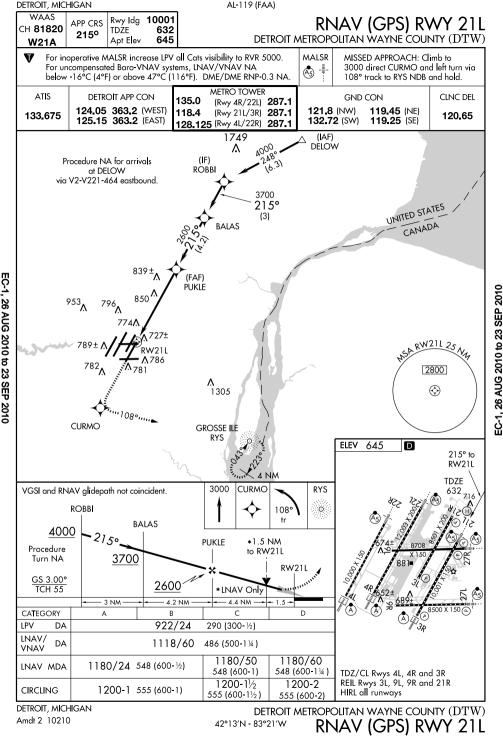
WAAS Rwy Idg 12003 RNAV (GPS) RWY 4R APP CRS CH 63004 638 TDŻE 035° Apt Elev DETROIT METROPOLITAN WAYNE COUNTY (DTW) W04A 645 ALSF-2 Tor inoperative ALSF-2, increase LPV all Cats visibility to RVR 5000, increase LNAV MISSED APPROACH: Climb to Cat D visibility to RVR 6000. For uncompensated Baro-VNAV systems, LNAV/VNAV 3000 direct CAVIB and via 043° NA below -16°C (4°F) or above -47°C (116°F). DME/DME RNP-0.3 NA track to MADDS and hold. METRO TOWER ATIS DETROIT APP CON CLNC DEL 135.0 (Rwy 4R/22L) 287.1 124.05 363.2 (WEST) 121.8 (NW) 119.45 (NE) 118.4 (Rwy 21L/3R) 287.1 133.675 120.65 125.15 363.2 (EAST) 132.72 (SW) 119.25 (SE) 128.125 (Rwy 4L/22R) 287.1 MISSED APCH FIX CAVIR 953∧ 796 A MADDS ^727± 786 737± 781 ∧<sup>1305</sup> 1.6 NM to RW04R (FAF) ÈTALÉ (IF) HÌMÉX SARWOAR 25/4 2800 ري) رهب Procedure NA for arrivals  $\Diamond$ at ANOVE (IAF) ELEV 645 D via V493 southbound. ANOVE 1387 3000 **CAVIB** MADDS HIMEX 043° **ETALE** 4000 \*CAXUD \*LNAV only Procedure 1.6 NM to RW04R RW04R Turn NA GS 3.00° 2600 \*1200 TCH 54 **TDZE** 7.2 NM 4.3 NM 638 CATEGORY D Α В C 035° to LPV 964/24 DA 326 (400-1/2) RW04R LNAV/ DA 1015/40 377 (400-3/4) VNAV 1060/40 1060/50 LNAV MDA 1060/24 422 (500-1/2) 422 (500-3/4) 422 (500-1) TDZ/CL Rwys 4L, 4R and 3R REIL Rwys 3L, 9L, 9R and 21R 1200-11/2 1200-2 CIRCLING 1200-1 555 (600-1) HIRL all runways 555 (600-11/2) 555 (600-2) DETROIT, MICHIGAN DETROIT METROPOLITAN WAYNE COUNTY (DTW) 42°13′N - 83°21′W

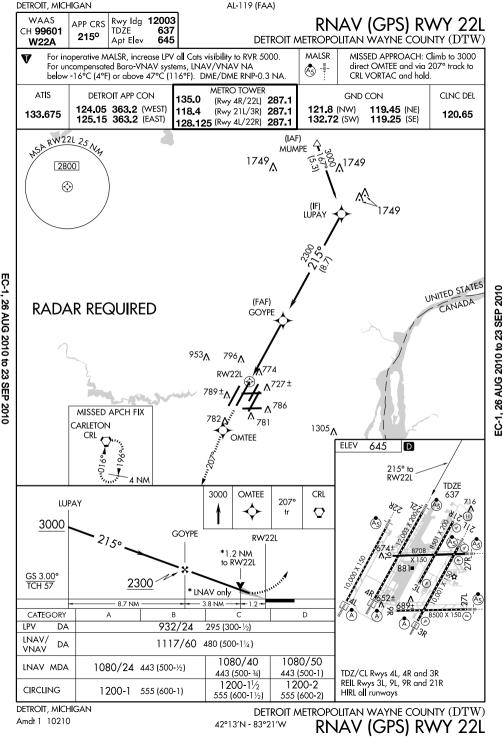
AL-119 (FAA)

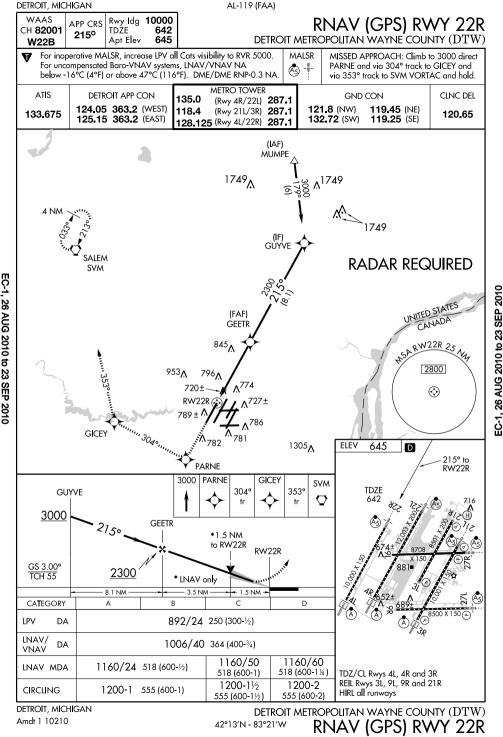
Amdt 1 10210

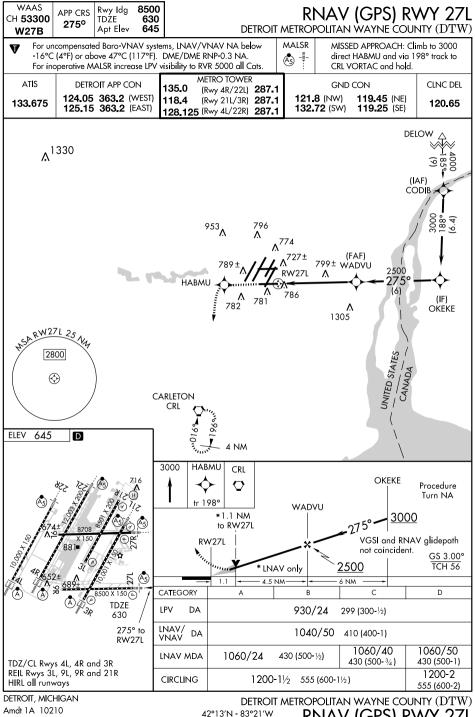
DETROIT, MICHIGAN

EC-1, 26 AUG 2010 to 23 SEP 2010





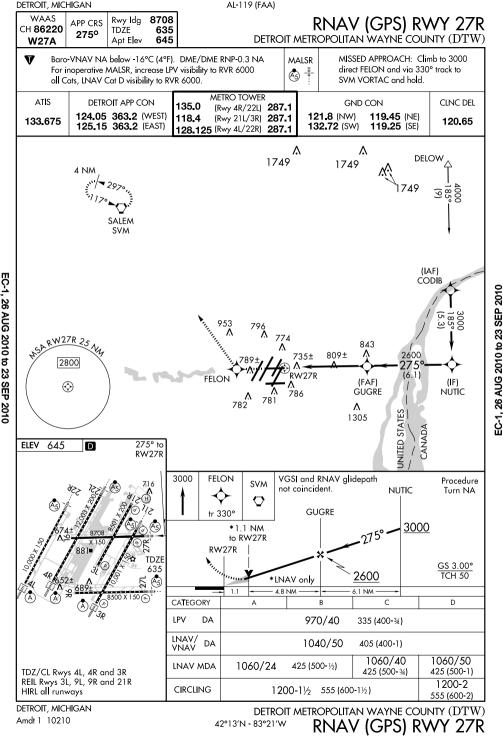


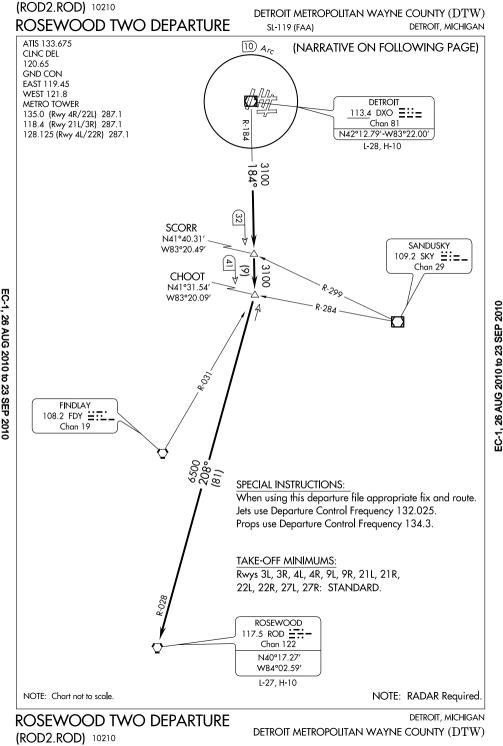


AL-119 (FAA)

DETROIT, MICHIGAN

EC-1, 26 AUG 2010 to 23 SEP 2010





V

EC-1, 26 AUG 2010 to 23 SEP 2010

# DEPARTURE ROUTE DESCRIPTION

TAKE-OFF ALL RUNWAYS: Climb via assigned heading for radar vectors to intercept DXO VOR/DME R-184 to CHOOT INT/DXO 41 DME (MEA 3100), then right turn to via ROD R-028 to ROD VORTAC (MEA 6500). Jets maintain 10,000 feet, cross DXO VOR/DME 10 DME at or above 5,000 feet for noise abatement. If unable to comply, advise ATC prior to departure. Props maintain 4,000 feet or lower assigned altitude. Expect clearance to filed altitude/flight level 10 minutes after departure.

#### TAKE-OFF OBSTACLES

Rwy 3R: Headwall 399' from DER, 566' right of centerline, 17' AGL/647' MSL.

Rwy 4L: Multiple transmission towers 1516' from DER, 827' left of centerline, up to 60' AGL/690' MSL.

> Multiple antennas 2751' from DER, 762' right of centerline, up to 84' AGL/714' MSL.

Rwy 4R: Antenna on building 3348' from DER, 1301' left of centerline,

100' AGL/736' MSL. Rwy 9L: Multiple trees 968' to 2519' from DER, 462' left of centerline and

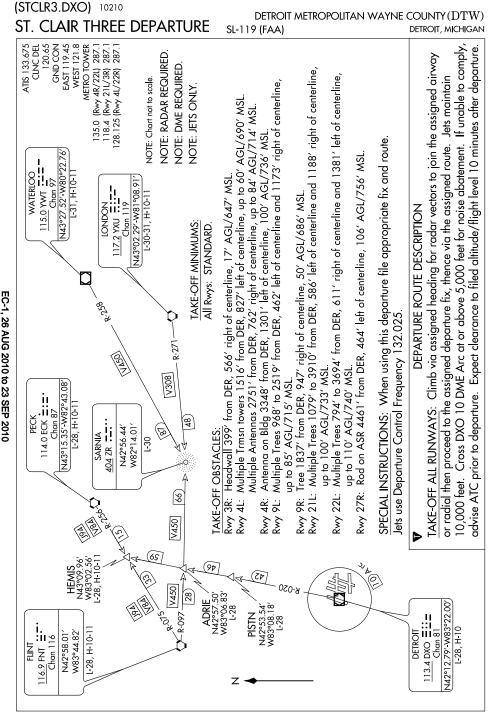
1173' right of centerline, up to 85' AGL/715' MSL.

Rwy 9R: Tree 1837' from DER, 947' right of centerline, 50' AGL/686' MSL. Rwy 21L: Multiple trees 1079' to 3910' from DER, 586' left of centerline and

1188' right of centerline, up to 100' AGL/733' MSL. Rwy 22L: Multiple trees 794' to 3694' from DER, 611' right of centerline and

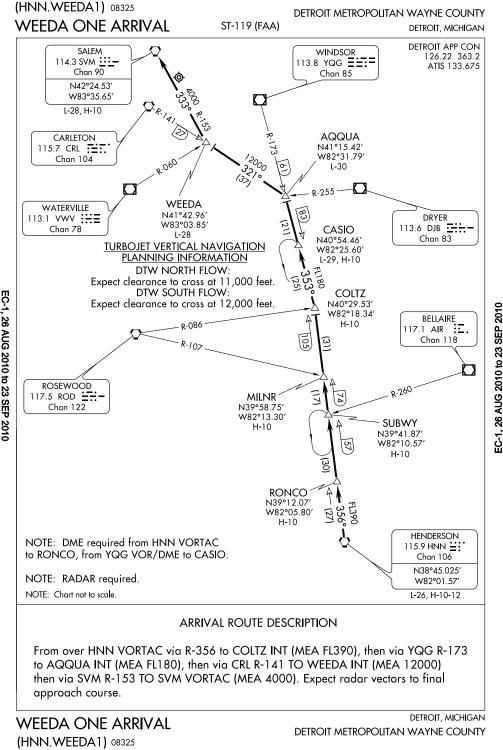
1381' left of centerline, up to 110' AGL/740' MSL. Rwy 27R: Rod on ASR 4461' from DER, 464' left of centerline,

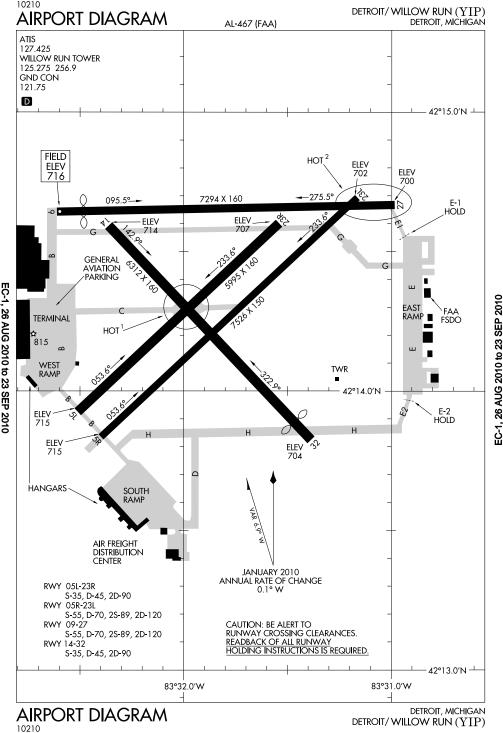
106' AGL/756' MSL.



#### THREE DEPARTURE CLAIR (STCLR3.DXO)

DETROIT METROPOLITAN WAYNE COUNTY (DTW)





146 MICHIGAN

### CONTINUED FROM PRECEDING PAGE

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

629/3W. HIWAS.

CARLETON (H) VORTAC 115.7 CRL Chan 104 N42°02.88' W83°27.45' 028° 10.9 NM to fld.

(H) VORW/DME 113.4 DXO Chan 81 N42°12.79′ W83°22.00′ at fld. 638/6W. NOTAM FILE DTW.

DME unusable byd 30 NM below 2900'.

REVUP NDB (LOM) 388 DT N42°07.21′ W83°25.90′ 038° 6.6 NM to fld. Unmonitored. SHUTDOWN.

SPENC NDB (LOM) 223 DM N42°13.20′ W83°12.20′ 272° 6.7 NM to fld.

ILS/DME 111.95 I-HJT Chan 56Y Rwy 04L. Class IIIE. DME also serves Rwy 22R.

ILS/DME 110.7 I-DTW Rwy 04R. LOM REVUP NDB. OM unmonitored. LOM SHUTDOWN. Chan 44

ILS/DME 110.7 I-DWC Chan 44 Rwy 22L. Class IE.

ILS/DME 111.95 I-JKI Chan 56Y Rwy 22R. Class IE. DME also serves Rwy 04R.

Chan 52 ILS/DME 111.5 I–HUU Rwv 03R.

ILS/DME 111.5 I-EJR Chan 52 Rwy 21L. LOM SPENC NDB. ILS 108.5 I-DMI Rwv 27R.

I-EPA Rwv 27L. Class IE.

COMM/NAV/WEATHER REMARKS: Dual VHF communications required for Simultaneous Close Parallel ILS PRM

Approaches, Rwy 04L and Rwy 22R Monitor 127.05, Rwy 04R and Rwy 22L Monitor 135,775 and Rwy 03R and Rwv 21L Monitor 128.35.

HIRL

```
WILLOW RUN (YIP) 24 SW UTC-5(-4DT) N42°14.36′ W83°31.86′
                                              ARFF Index—See Remarks NOTAM FILE YIP
  716 B S4
               FUEL 100LL, JET A OX 1, 3 LRA
```

RWY 05R-23L: H7526X150 (ASPH) S-55, D-70, 2S-89, 2D-120 RWY 05R: MALSR. Tree.

RWY 23L: MALSR. VASI(V4L)-GA 3.0° TCH 56'.

RWY 09-27: H7294X160 (ASPH-GRVD) S-55, D-70, 2S-89.

2D-120 MIRL

RWY 09: Thid dspled 574', Railroad. RWY 14-32: H6312X160 (ASPH-GRVD) S-35, D-45, 2D-90

RWY 14: Antenna.

RWY 32: REIL, PAPI(P4L)—GA 3.5° TCH 45', Thid dspicd 525',

RWY 05L-23R: H5995X160 (ASPH-GRVD) S-35, D-45, 2D-90

MIRI

RWY 051 - Trees RWY 23R: Trees

RUNWAY DECLARED DISTANCE INFORMATION

RWY 05L: TORA-5995 TODA-5995 ASDA-5995 LDA-5995 RWY 23R: TORA-5995 TODA-5995 ASDA-5995 LDA-5995

AIRPORT REMARKS: Attended continuously. Helicopter tkf and ldg on the south ramp prohibited, taxi only. Birds on and invof arpt. Rwys

09-27, only the 80' center portion is grvd. Class IV, ARFF Index A. ARFF Index E svc avbl on reg call 734-485-6660. 48 hr PPR for unscheduled air carrier ops with more than 30 passenger seats

weekend. U.S. customs user fee arpt. All billing thru Wayne Co. Arpt Authority; For customs clearance 1 hr minimum advance notification rgr. Pilots must ctc U.S. customs on 313-226-3140. Reg for customs svc by FAA flight plan is not accepted. Ldg fee. Ldg fee is based on acft gross weight.

WEATHER DATA SOURCES: ASOS 132.350 (734) 485-9056, LAWRS.

COMMUNICATIONS: ATIS 127.425 (734) 482-6590

(R) DETROIT APP/DEP CON 118.95

TOWER 125.275 **GND CON 121.75** RADIO AIDS TO NAVIGATION: NOTAM FILE DTW.

DETROIT (H) VORW/DME 113.4 DXO Chan 81 N42°12.79′ W83°22.00′

YIPPS NDB (LOM) 359 YI N42°10.45′ W83°37.29′ 052° 5.6 NM to fld. Unmonitored. ILS/DME 109.5 I-YIP Chan 32 Rwy 05R. Class IE. LOM YIPPS NDB.

I-LSW Chan 32 Rwv 23L. COMM/NAV/WEATHER REMARKS: Emerg frequencies not avbl at twr.

MIRL 0/00 7294 X 160 A Œ requiring Index C or greater call arpt manager 734-485-6670. Flight Notification Service (ADCUS) avbl call 734-942-9000. Customs avbl 24 hrs, Mon-Fri and on call from Detroit Metropolitan Wayne Co arpt on

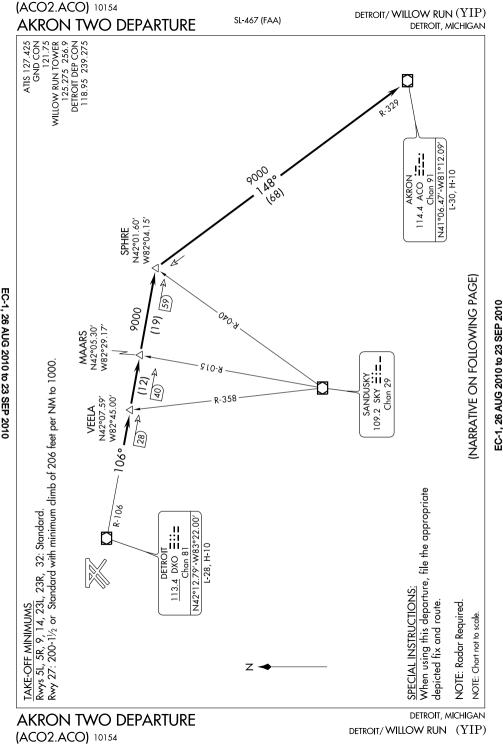
288° 7.5 NM to fld. 638/6W.

DETROIT

COPTER

IAP. AD

H-10G, L-28J, A





#### DEPARTURE ROUTE DESCRIPTION

<u>TAKE-OFF ALL RUNWAYS:</u> Climb via assigned heading for radar vectors, thence. . . .

. . . . to intercept DXO VOR/DME R-106 to SPHRE INT, then via ACO R-329 to ACO VOR/DME. Maintain 3000 feet, expect clearance to filed altitude/flight level ten (10) minutes after departure.

#### **TAKE-OFF OBSTACLES**

Rwy 5L: Multiple Trees beginning 1438' to 2887' from DER, from 119' to 438' left of centerline, up to 79' AGL/785' MSL.

Rwy 5R: Multiple Trees beginning 1877' to 2472' from DER, from 134' to 922' left and right of centerline, up to 78' AGL/777' MSL.

Rwy 9R: Multiple Trees beginning 827' to 2598' from DER, from 432' to 600' left and right of centerline, up to 77' AGL/780' MSL.

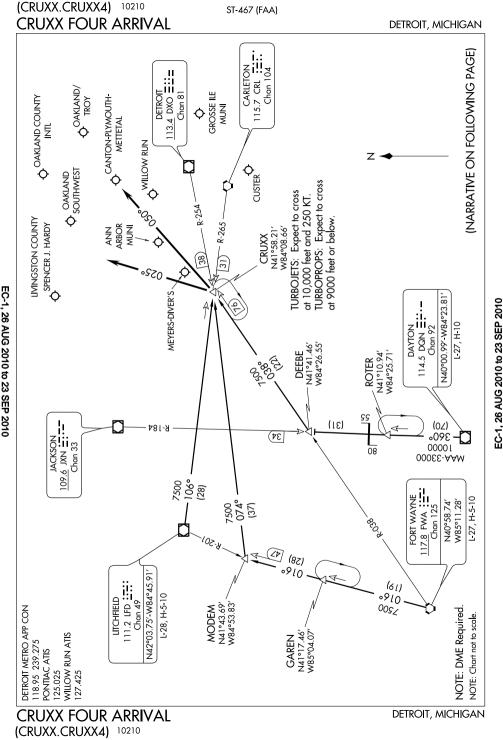
Rwy 23L: Tree 1304' from DER, 438' right of centerline, 42' AGL/757' MSL. Tree 2457' from DER, 720' left of centerline, 66' AGL/781' MSL.

Rwy 23R: Multiple trees and road with vehicle beginning 587' to 1333' from DER, from 282' to 814' left and right of centerline, up to 77' AGL/793' MSL.

Rwy 27L: Multiple Trees and Pole beginning 1273' to 2024' from DER, from 47' to 769' left and right of centerline, up to 90' AGL/805' MSL.

Rwy 27: Railroad and Lights beginning 564' to 1565' from DER, from 4' to 333' left of centerline, up to 54' AGL/770' MSL.
Tree and Lights beginning 102' to 1257' from DER, from 10' to 485' right of centerline, up to 55' AGL/771' MSL.
Tower 7161' from DER, 502' left of centerline, 162' AGL/900' MSL.

Rwy 32: Multiple Trees and Poles beginning 701' to 1884' from DER, from 78' to 750' left of centerline, up to 84' AGL/798' MSL.
Multiple Trees 1157' to 1893' from DER, from 126' to 475' right of centerline, up to 66' AGL/780' MSL.



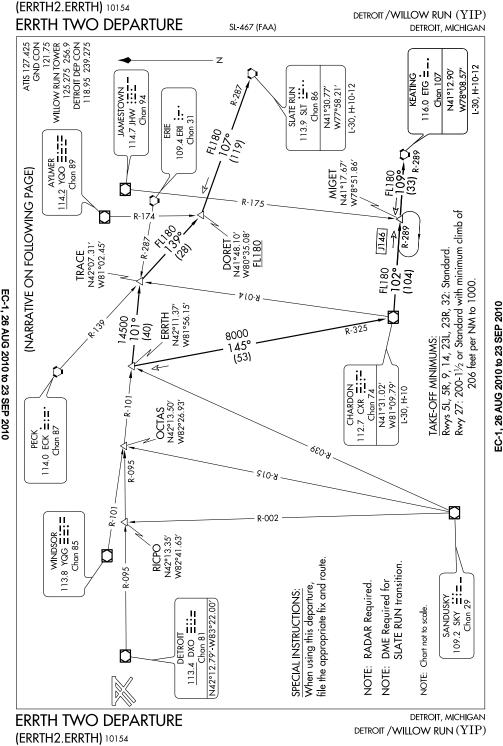
### ARRIVAL DESCRIPTION

DAYTON TRANSITION (DQN.CRUXX4): From over DQN VOR/DME via DQN R-360 and JXN R-184 to DEEBE INT and FWA R-038 to CRUXX INT. Thence . . . . FORT WAYNE TRANSITION (FWA.CRUXX4): From over FWA VORTAC via FWA R-016 to MODEM INT and DXO R-254 to CRUXX INT. Thence . . . . LITCHFIELD TRANSITION (LFD.CRUXX4): From over LFD VORTAC via LFD R-106 to CRUXX INT. Thence . . . .

.... Aircraft landing Y47, PTK, OMI7, ØZW, ONZ, 1D2, TTF, VLL: From over CRUXX INT via 025° heading.

. . . . Aircraft landing YIP or ARB: From over CRUXX INT via 050° heading.

Expect radar vector to final approach course.



V

#### DEPARTURE ROUTE DESCRIPTION

SL-467 (FAA)

TAKE-OFF ALL RUNWAYS: Climb via assigned heading for radar vectors to join the assigned SID. Maintain 3000 feet, expect clearance to filed altitude/flight level ten (10) minutes after departure.

CHARDON TRANSITION (ERRTH2.CXR): From over ERRTH INT

via CXR R-325 to CXR VOR/DME.

KEATING TRANSITION (ERRTH2.ETG): From over ERRTH INT via CXR R-325 to CXR VOR/DME, then via CXR R-102 and ETG R-289

to MIGET INT, then via ETG R-289 to ETG VORTAC.

SLATE RUN TRANSITION (ERRTH2.SLT): (DME Required) From over

ERRTH INT via YQG R-101 to TRACE INT, then via ECK R-139 to

DORET INT, then via SLT R-287 to SLT VORTAC.

# TAKE-OFF OBSTACLES:

EC-1, 26 AUG 2010 to 23 SEP 2010

Multiple trees beginning 1438' to 2887' from DER, from 119' to 438' Rwy 5L: left of centerline, up to 79' AGL/785' MSL.

Multiple trees beginning 1877' to 2472' from DER, from 134' to 922' Rwy 5R: left and right of centerline, up to 78' AGL/777' MSL.

Rwy 9R: Multiple trees beginning 827' to 2598' from DER, from 432' to 600' left and right of centerline, up to 77' AGL/780' MSL.

Rwy 23L Tree 1304' from DER, 438' right of centerline, 42' AGL/757' MSL. Tree 2457' from DER, 720' left of centerline, 66' AGL/781' MSL.

Rwy 23R: Multiple trees and road with vehicle beginning 587' to 1333' from

DER, from 282' to 814' left and right of centerline, up to 77' AGL/793' MSL.

Rwy 27L: Multiple trees and pole beginning 1273' to 2024' from DER, from 47' to 769' left and right of centerline, up to 90' AGL/805' MSL.

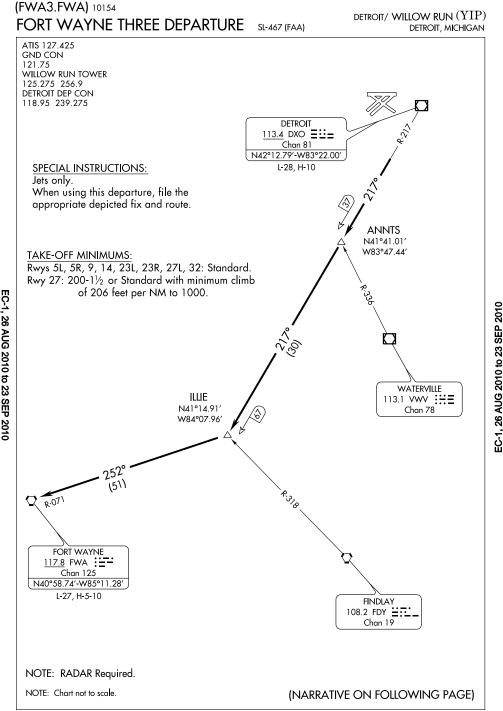
Railroad and lights beginning 564' to 1565' from DER, from 4' to 333' Rwy 27: left of centerline, up to 54' AGL/770' MSL. Tree and lights beginning 102' to 1257' from DER, from 10' to 485' right of

centerline, up to 55' AGL/771' MSL. Tower 7161' from DER, 502' left of centerline, 162' AGL/900' MSL.

Rwy 32: Multiple trees and poles beginning 701' to 1884' from DER, from 78' to

750' left of centerline, up to 84' AGL/798' MSL. Multiple trees 1157' to 1893' from DER, from 126' to 475' right of centerline, up

to 66' AGL/780' MSL.



# FORT WAYNE THREE DEPARTURE (FWA3.FWA) 10154

 $\begin{array}{c} \text{DETROIT, MICHIGAN} \\ \text{DETROIT/ WILLOW RUN} \ (YIP) \end{array}$ 

# V

### DEPARTURE ROUTE DESCRIPTION

<u>TAKE-OFF ALL RUNWAYS:</u> Climb via assigned heading for radar vectors, thence. . . .

. . . . to intercept DXO VOR/DME R-217 to ILLIE INT, then via FWA R-071 to FWA VORTAC. Maintain 3000, expect clearance to filed flight level ten (10) minutes after departure.

#### TAKE-OFF OBSTACLES:

Rwy 5L: Multiple trees beginning 1438' to 2887' from DER, from 119' to 438' left of centerline, up to 79' AGL/785' MSL.

Rwy 5R: Multiple trees beginning 1877' to 2472' from DER, from 134' to 922'

left and right of centerline, up to 78' AGL/777' MSL.
Rwy 9R: Multiple trees beginning 827' to 2598' from DER, from 432' to 600'

left and right of centerline, up to 77' AGL/780' MSL. wy 23L: Tree 1304' from DER, 438' right of centerline, 42' AGL/757' MSL.

Tree 2457' from DER, 720' left of centerline, 66' AGL/781' MSL. Rwy 23R: Multiple trees and road beginning 587' to 1333' from

DER, from 282' to 814' left and right of centerline, up to 77' AGL/793' MSL.

Rwy 27L: Multiple trees and pole beginning 1273' to 2024' from DER, from 47' to 769' left and right of centerline, up to 90' AGL/805' MSL.

Rwy 27: Railroad and lights beginning 564' to 1565' from DER, from 4' to 333'

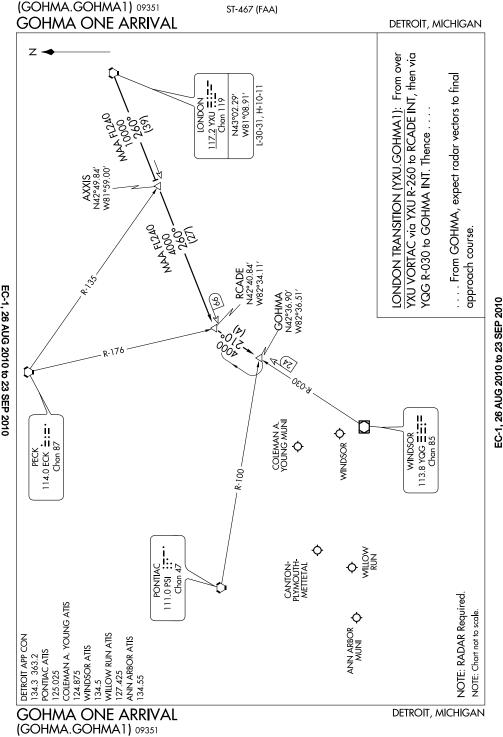
left of centerline, up to 54' AGL/770' MSL.

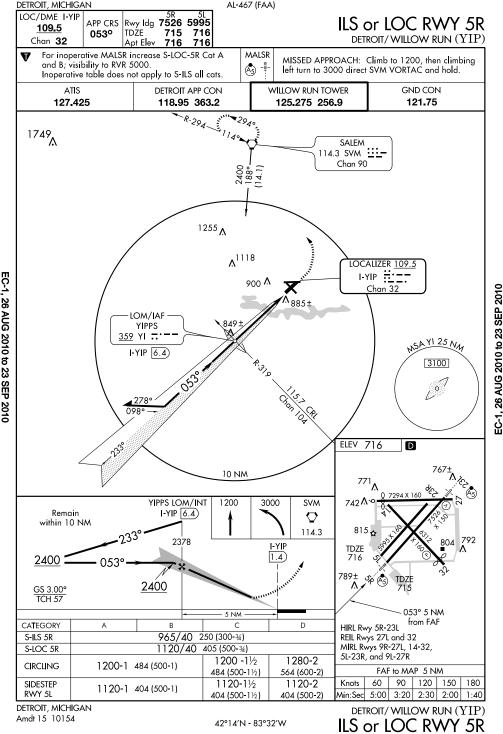
Tree and lights beginning 102' to 1257' from DER, from 10' to 485' right of centerline, up to 55' AGL/771' MSL.

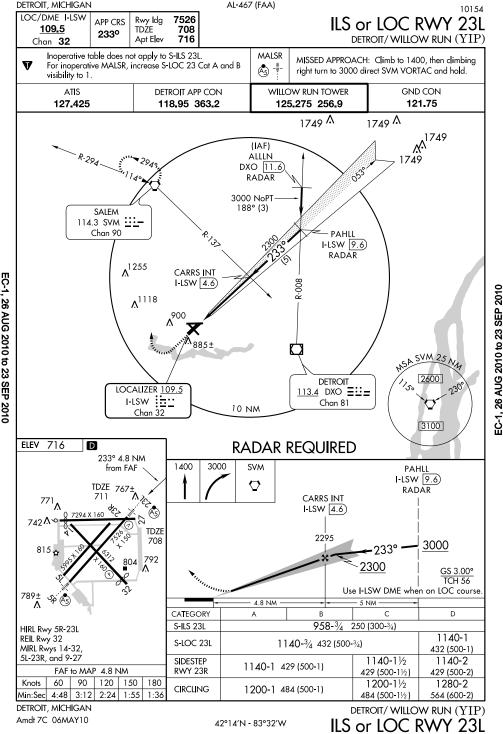
Tower 7161' from DER, 502' left of centerline, 162' AGL/900' MSL.

Rwy 32: Multiple trees and poles beginning 701' to 1884' from DER, from 78' to 750' left of centerline, up to 84' AGL/798' MSL.

Multiple trees 1157' to 1893' from DER, from 126' to 475' right of centerline, up to 66' AGL/780' MSL.







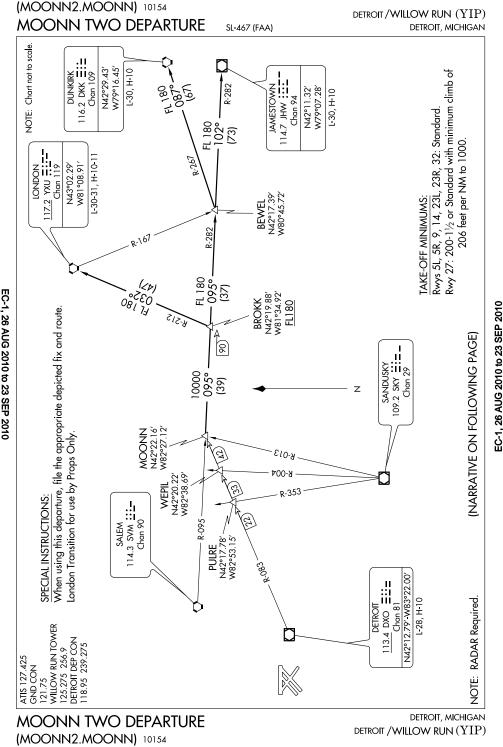
NOTE: Chart not to scale.

EC-1, 26 AUG 2010 to 23 SEP 2010

#### ARRIVAL DETROIT, MICHIGAN 118.95 363.2 PONTIAC ATIS 125.025 124.875 WINDSOR ATIS 134.5 SELFRIDGE ATIS 125.325 270.1 127.425 ANN ARBOR ATIS 134.55 NOTE: RADAR REQUIRED DETROIT APP CON COLEMAN A. YOUNG ATIS WILLOW RUN ATIS JOHNSTOWN L-29, H-10-12 W78°50.05′ N40°19.00′ Chan 77 115.5 PSB :::::. Chan 102 PHILPSBURG W77°59.56′ N40°54.98′ L-30, H-10-12 MAA FL450 FL180 289 (66) 41°0°, Z 114.4 ACO ===== 112.7 CXR ==== W81°12.09′ W80°24.97′ N41°06.47" N41°11.53' AKRON Chan 91 CHARDON HAGUD L-30, H-10 19 Chan 74 117.1 AIR 🛅 R-102 Chan 118 BELLAIRE Turboprops: Expect clearance to cross at 8,000'. Furbojets: Expect clearance to cross at 10,000′ 8 EC-1, 26 AUG 2010 to 23 SEP 2010 PLANNING INFORMATION VERTICAL NAVIGATION W81°34.66′ N41°18.34′ N41°50.55′-W82°37.38′ CANCR . . . . Aircraft Landing Coleman A. Young Muni, Oakland County Intl, Windsor, Oakland/Troy, Southwest, Livingston County: From over LLEEO INT via 330° heading. Expect radar vectors to ILEEO AKRON TRANSITION (ACO.LLEEO2): From over ACO VOR/DME via ACO R-309 and DXO JOHNSTOWN TRANSITION (JST. LLEEQ2): From over JST VORTAC via JST R-313 to HAGUD 00 INT, then via DJB R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. DRYER TRANSITION (DJB.LLEEO2): From over DJB VOR/DME via DJB R-330 to LLEEO INT. 27 PHILPSBURG TRANSITION (PSB.LLEEO2): From over PSB VORTAC via PSB R-289 and DJB . . . Aircraft Landing Willow Run, Ann Arbor Muni, Canton-Plymouth-Mettetal, Oakland 9 W82°12.83' N41°38.07′ R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. Thence . . . . Selfridge ANGB: From over LLEEO INT via 360° heading. Expect radar vectors to final PEJAE R-102-10000 ARRIVAL ROUTE DESCRIPTION SELFRIDGE ANGB COLEMAN A. YOUNG MUNI WINDSOR -8-065 113.6 DJB ::: W82°09.72′ L-30, H-10 N41°21.48′ Chan 83 DRYER OAKLAND/ TROY R-130 to LLEEO INT. Thence OAKIAND COUNTY NTL 113.4 DXO =::= CANTON PLYMOUTH **♦** METTETAL WILLOW DETROIT Z N Chan 81 OAKLAND SOUTHWEST 🔷 13.1 vwv :: II final approach course. WATERVILLE ANN ARBOR 🗘 Chan 78 LIMINGSTON Thence. Thence.

ARRIVAL

approach course.





EC-1, 26 AUG 2010 to 23 SEP 2010

#### DEPARTURE ROUTE DESCRIPTION

TAKE-OFF ALL RUNWAYS: Climb via assigned heading for radar vectors to join the assigned SID. Maintain 3000 feet, expect clearance to filed altitude/ flight level ten (10) minutes after departure.

DUNKIRK TRANSITION (MOONN2.DKK): From over MOONN INT via SVM R-095 to BROKK INT, then via SVM R-095 and JHW R-282 to BEWEL INT, then via DKK R-267 to DKK VORTAC.

JAMESTOWN TRANSITION (MOONN2.JHW): From over MOONN INT via SVM R-095 to BROKK INT, then via SVM R-095 and JHW R-282 to BEWEL INT, then via JHW R-282 to JHW VOR/DME.

LONDON TRANSITION (MOONN2.YXU): From over MOONN INT via SVM R-095 to BROKK INT, then via YXU R-212 to YXU VORTAC.

#### TAKE-OFF OBSTACLES

Multiple trees beginning 1438' to 2887' from DER,

from 119' to 438' left of centerline, up to 79' AGL/785' MSL. Multiple trees beginning 1877' to 2472' from DER, Rwy 5R:

from 134' to 922' left and right of centerline, up to 78' AGL/777' MSL.

Multiple trees beginning 827' to 2598' from DER, Rwy 9R: from 432' to 600' left and right of centerline, up to 77' AGL/780' MSL.

Rwy 23L: Tree 1304' from DER, 438' right of centerline, 42' AGL/757' MSL.

Tree 2457' from DER, 720' left of centerline, 66' AGL/781' MSL. Rwy 23R: Multiple trees and road beginning 587' to 1333' from DER,

from 282' to 814' left and right of centerline, up to 77' AGL/793' MSL.

Rwy 27L: Multiple trees and pole beginning 1273' to 2024' from DER, from 47' to 769' left and right of centerline, up to 90' AGL/805' MSL.

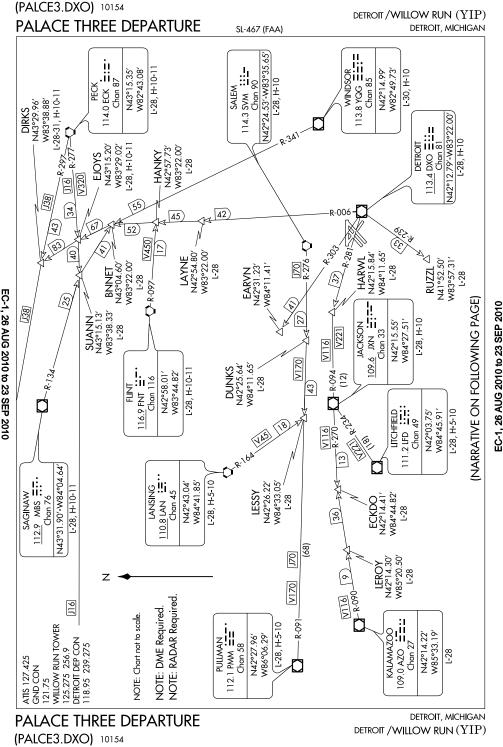
Railroad and lights beginning 564' to 1565' from DER, from 4' to 333' left of centerline, up to 54' AGL/770' MSL. Tree and lights beginning 102' to 1257' from DER,

from 10' to 485' right of centerline, up to 55' AGL/771' MSL. Tower 7161' from DER, 502' left of centerline, 162' AGL/900' MSL.

Multiple trees and poles beginning 701' to 1884' from DER,

from 78' to 750' left of centerline, up to 84' AGL/798' MSL. Multiple trees 1157' to 1893' from DER,

from 126' to 475' right of centerline, up to 66' AGL/780' MSL.



## PALACE THREE DEPARTURE

V

### DEPARTURE ROUTE DESCRIPTION

#### TAKE-OFF MINIMUMS:

Rwy 5L, 5R, 9, 14, 23L, 23R, 32: Standard.

Rwy 27:  $200-1\frac{1}{2}$  or Standard with minimum climb of 206 feet per NM to 1000.

TAKE-OFF ALL RUNWAYS: Climb via assigned heading for radar vectors to join the assigned SID. Maintain 3000 feet, expect clearance to filed altitude/flight level ten (10) minutes after departure.

#### SPECIAL INSTRUCTIONS:

When using this departure, file the appropriate depicted departure fix and route. Aircraft landing/overflying Lansing (LAN) or overflying Flint (FNT) at 10,000 feet or below, file via EARVN. Aircraft landing Flint (FNT) at 10,000 feet or below, file via LAYNE. Aircraft landing/overflying Toledo (TOL) at 10,000 feet or below, file via RUZZL. Aircraft over HARWL must file FL220 and below.

#### TAKE-OFF OBSTACLES:

Rwy 5L: Multiple trees beginning 1438' to 2887' from DER, from 119' to 438' left of centerline, up to 79' AGL/785' MSL. Multiple trees beginning 1877' to 2472' from DER, from 134' to 922' Rwy 5R:

left and right of centerline, up to 78' AGL/777' MSL. Multiple trees beginning 827' to 2598' from DER, from 432' to 600' Rwy 9R:

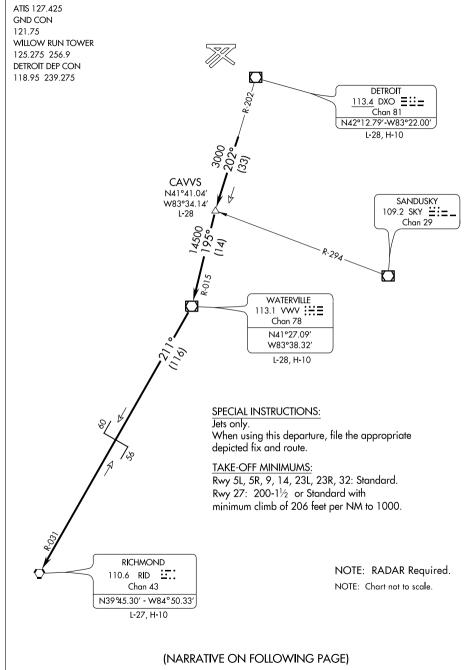
left and right of centerline, up to 77' AGL/780' MSL. Rwy 23L: Tree 1304' from DER, 438' right of centerline, 42' AGL/757' MSL.

Tree 2457' from DER, 720' left of centerline, 66' AGL/781' MSL. Rwy 23R: Multiple trees and road with vehicle beginning 587' to 1333' from DER, from 282' to 814' left and right of centerline, up to 77' AGL/793' MSL.

Multiple trees and pole beginning 1273' to 2024' from DER, from 47' to 769' left and right of centerline, up to 90' AGL/805' MSL.

Railroad and lights beginning 564' to 1565' from DER, from 4' to 333' Rwy 27: left of centerline, up to 54' AGL/770' MSL. Tree and lights beginning 102' to 1257' from DER, from 10' to 485' right of centerline, up to 55' AGL/771' MSL. Tower 7161' from DER, 502' left of centerline, 162' AGL/900' MSL.

Multiple trees and poles beginning 701' to 1884' from DER, from 78' to Rwy 32: 750' left of centerline, up to 84' AGL/798' MSL. Multiple trees 1157' to 1893' from DER, from 126' to 475' right of centerline, up to 66' AGL/780' MSL.



# RICHMOND FOUR DEPARTURE

# RICHMOND FOUR DEPARTURE SL-467 (FAA)

FAA)



EC-1, 26 AUG 2010 to 23 SEP 2010

#### DEPARTURE ROUTE DESCRIPTION

TAKE-OFF ALL RUNWAYS: Climb via assigned heading for radar vectors, thence. . . .

.... To intercept DXO VOR/DME R-202 to CAVVS INT/DXO 33 DME, then via VWV R-015 to VWV VOR/DME. Then right turn via VWV R-211 and RID R-031 to RID VORTAC. Maintain 3,000 feet, expect clearance to filed altitude/flight level ten (10) minutes after departure.

#### TAKE-OFF OBSTACLES:

Rwy 5L: Multiple trees beginning 1438' to 2887' from DER, from 119' to 438' left of centerline, up to 79' AGL/785' MSL.

Rwy 5R: Multiple trees beginning 1877' to 2472' from DER, from 134' to 922' left and right of centerline, up to 78' AGL/777' MSL.

Rwy 9R: Multiple trees beginning 827' to 2598' from DER,

from 432' to 600' left and right of centerline, up to 77' AGL/780' MSL.

Rwy 23L: Tree 1304' from DER, 438' right of centerline, 42' AGL/757' MSL.

Tree 2457' from DER, 720' left of centerline, 66' AGL/781' MSL.

Rwy 23R: Multiple trees and road beginning 587' to 1333' from DER, from 282' to 814' left and right of centerline, up to 77' AGL/793' MSL.

Rwy 27L: Multiple trees and pole beginning 1273' to 2024' from DER,

from 47' to 769' left and right of centerline, up to 90' AGL/805' MSL. Rwy 27: Railroad and lights beginning 564' to 1565' from DER,

from 4' to 333' left of centerline, up to 54' AGL/770' MSL.

Tree and lights beginning 102' to 1257' from DER,

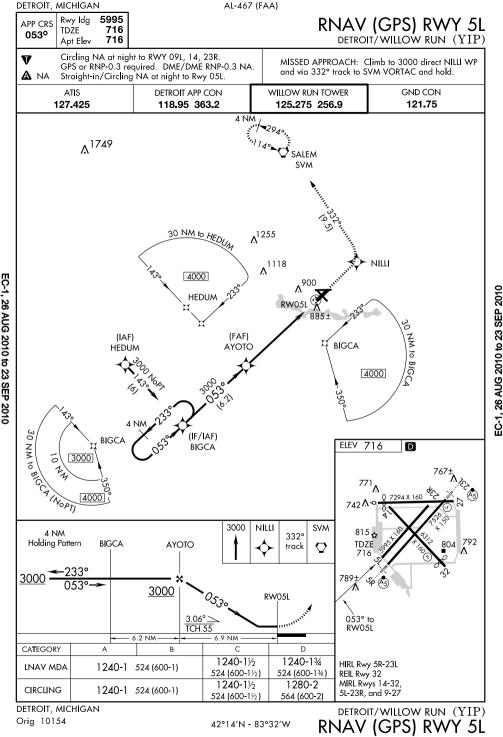
from 10' to 485' right of centerline, up to 55' AGL/771' MSL.

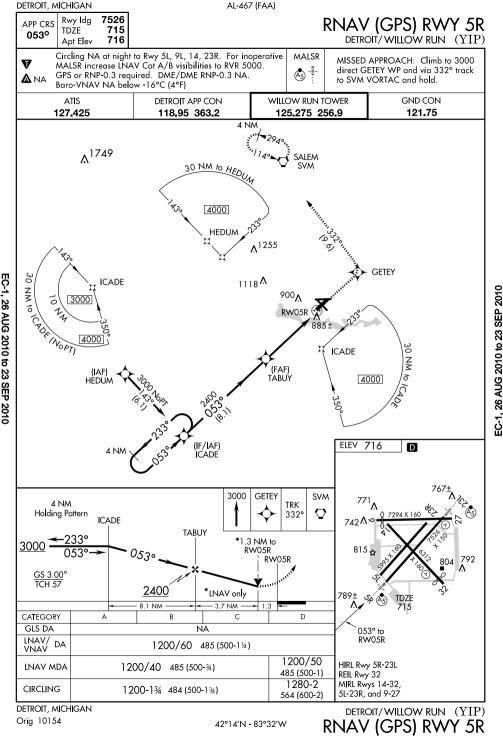
Tower 7161' from DER, 502' left of centerline, 162' AGL/900' MSL.

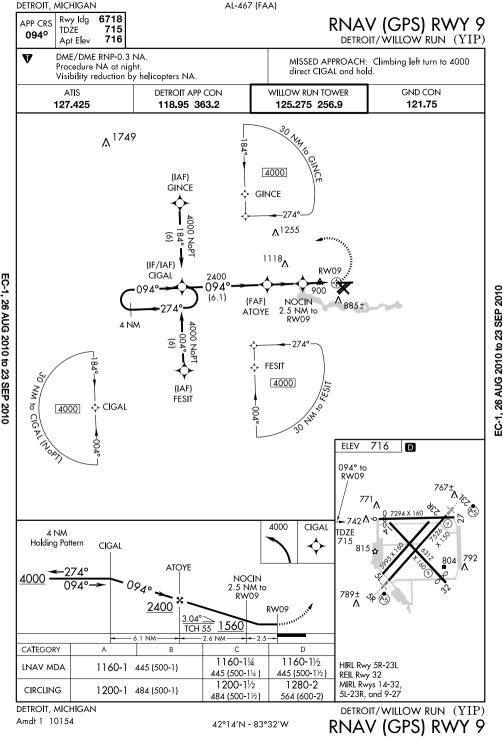
Rwy 32: Multiple trees and poles beginning 701' to 1884' from DER,

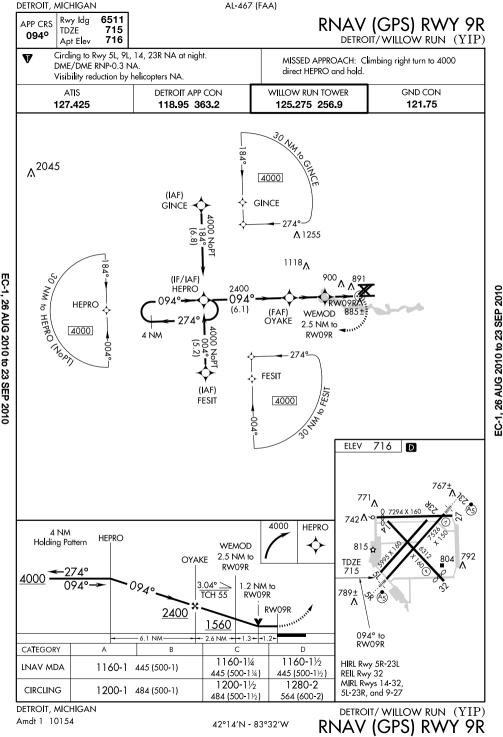
from 78' to 750' left of centerline, up to 84' AGL/798' MSL. Multiple trees 1157' to 1893' from DER,

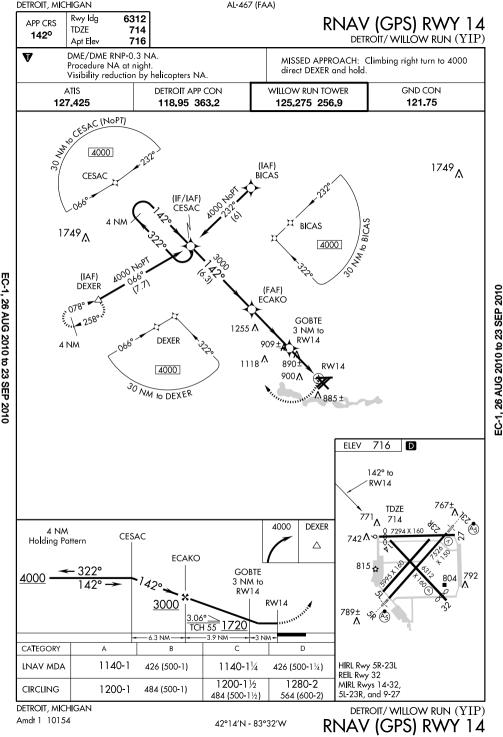
from 126' to 475' right of centerline, up to 66' AGL/780' MSL.

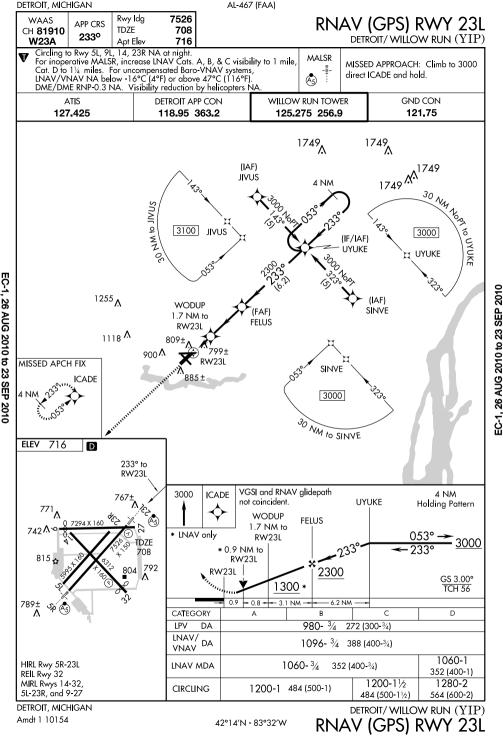


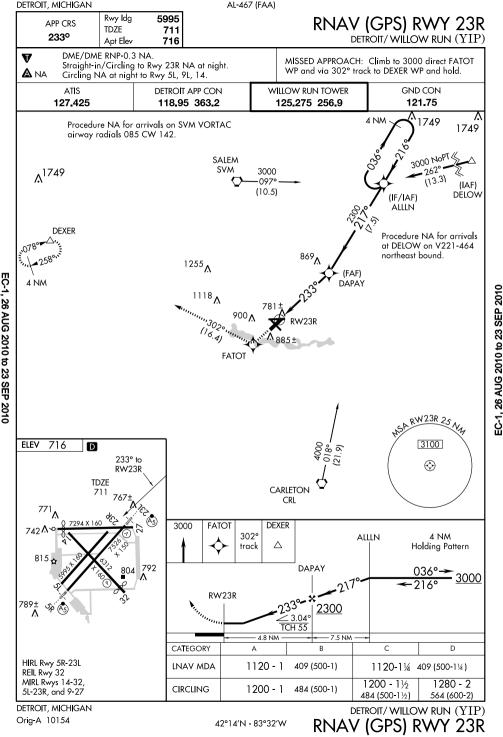












# ROSEWOOD TWO DEPARTURE (ROD2.ROD) 10154

ROSEWOOD TWO DEPARTURE



#### DEPARTURE ROUTE DESCRIPTION

TAKE-OFF ALL RUNWAYS: Climb via assigned heading for radar vectors to join the assigned SID. Maintain 3000 feet, expect clearance to filed altitude / flight level ten (10) minutes after departure.

#### TAKE-OFF OBSTACLES

Rwy 5L: Multiple trees beginning 1438' to 2887' from DER, from 119' to 438' left of centerline, up to 79' AGL/785' MSL.

Rwy 5R: Multiple trees beginning 1877' to 2472' from DER, from 134' to 922' left and right of centerline, up to 78' AGL/777' MSL.

Rwy 9R: Multiple trees beginning 827' to 2598' from DER, from 432' to 600' left and right of centerline, up to 77' AGL/780' MSL.

Rwy 23L: Tree 1304' from DER, 438' right of centerline, 42' AGL/757' MSL.

Tree 2457' from DER, 720' left of centerline, 66' AGL/781' MSL. Rwy 23R: Multiple trees and road with vehicle beginning 587' to 1333' from DER,

from 282' to 814' left and right of centerline, up to 77' AGL/793' MSL. Rwy 27L: Multiple trees and pole beginning 1273' to 2024' from DER,

from 47' to 769' left and right of centerline, up to 90' AGL/805' MSL. Rwy 27: Railroad and lights beginning 564' to 1565' from DER,

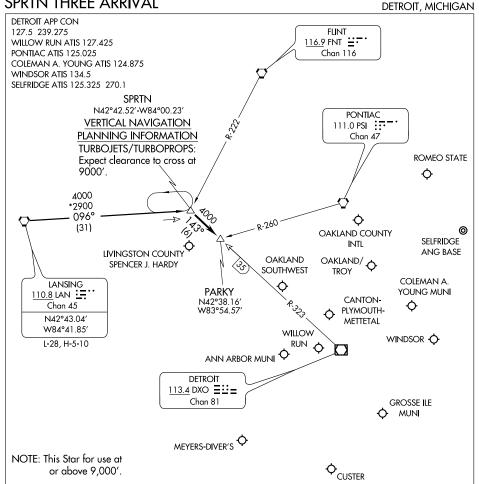
from 4' to 333' left of centerline, up to 54' AGL/770' MSL.
Tree and lights beginning 102' to 1257' from DER,
from 10' to 485' right of centerline, up to 55' AGL/771' M

from 10' to 485' right of centerline, up to 55' AGL/771' MSL.
Tower 7161' from DER, 502' left of centerline, 162' AGL/900' MSL.
32: Multiple trees and poles beginning 701' to 1884' from DER,

from 78' to 750' left of centerline, up to 84' AGL/798' MSL.

Multiple trees 1157' to 1893' from DER,

from 126' to 475' right of centerline, up to 66' AGL/780' MSL.



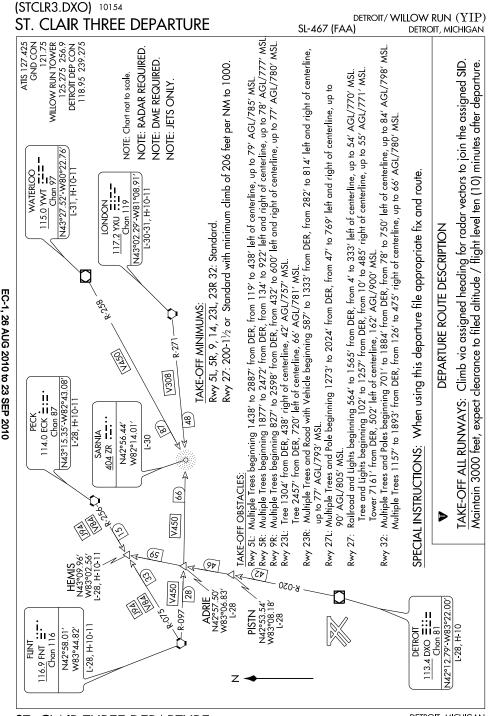
LANSING TRANSITION (LAN.SPRTN3): From over LAN VORTAC via LAN R-096 to SPRTN INT. Thence . . . .

. . . . Aircraft landing: DET, PTK, VLL, D98, MTC, ARB, YIP, ONZ, 1D2, TTF, Y47, 36MI, OZW, 3TE, YQG: From over SPRTN INT via DXO R-323

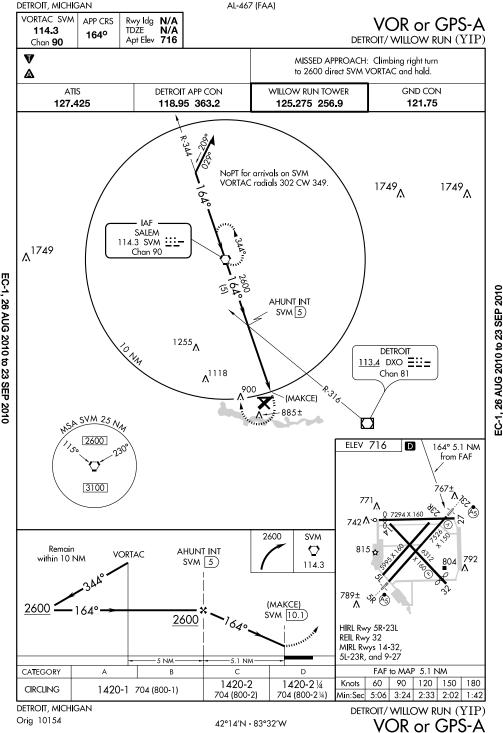
to PARKY INT. Thence . . . .

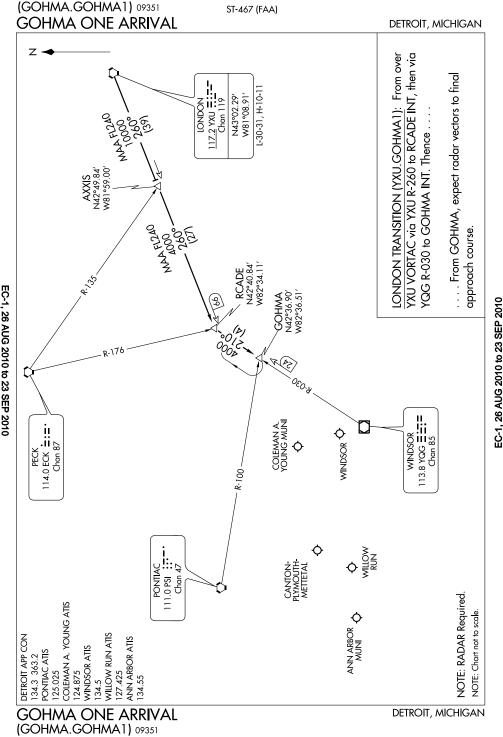
. . . . Expect radar vectors to final approach course.

NOTE: Chart not to scale.



# ST. CLAIR THREE DEPARTURE (STCLR3.DXO) 10154





W77°59.56′ N40°54.98′

L-30, H-10-12

MAA FL450 FL180 289 (66)

R-102

8

19

L-29, H-10-12 W78°50.05′ N40°19.00′ Chan 77

41°0°,

114.4 ACO =====

AKRON Chan 91 W81°12.09′

L-30, H-10

117.1 AIR 🛅

Chan 118 BELLAIRE

EC-1, 26 AUG 2010 to 23 SEP 2010

N41°06.47"

NOTE: RADAR REQUIRED

NOTE: Chart not to scale.

(LLEEO.LLEEO2) ARRIVAL 118.95 363.2 PONTIAC ATIS 125.025 124.875 WINDSOR ATIS 134.5 SELFRIDGE ATIS 125.325 270.1 127.425 ANN ARBOR ATIS 134.55 DETROIT APP CON COLEMAN A. YOUNG ATIS WILLOW RUN ATIS 115.5 PSB :::::. Chan 102 PHILPSBURG Z 112.7 CXR ==== CHARDON Chan 74 Turboprops: Expect clearance to cross at 8,000'. Furbojets: Expect clearance to cross at 10,000′ EC-1, 26 AUG 2010 to 23 SEP 2010 PLANNING INFORMATION VERTICAL NAVIGATION N41°50.55′-W82°37.38′ ILEEO W82°12.83' N41°38.07′ PEJAE

W80°24.97′ N41°11.53' HAGUD N41°18.34′ CANCR

-8-065

13.1 vwv :: II

Chan 78

WATERVILLE

113.4 DXO =::=

Chan 81

DETROIT Z N

113.6 DJB :::

W81°34.66′ 00 9

> W82°09.72′ L-30, H-10 N41°21.48′ Chan 83 DRYER

DRYER TRANSITION (DJB.LLEEO2): From over DJB VOR/DME via DJB R-330 to LLEEO INT.

AKRON TRANSITION (ACO.LLEEO2): From over ACO VOR/DME via ACO R-309 and DXO

R-130 to LLEEO INT. Thence

Thence.

Thence.

ARRIVAL ROUTE DESCRIPTION

JOHNSTOWN

JOHNSTOWN TRANSITION (JST. LLEEQ2): From over JST VORTAC via JST R-313 to HAGUD INT, then via DJB R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT.

. . . . Aircraft Landing Coleman A. Young Muni, Oakland County Intl, Windsor, Oakland/Troy, Southwest, Livingston County: From over LLEEO INT via 330° heading. Expect radar vectors to PHILPSBURG TRANSITION (PSB.LLEEO2): From over PSB VORTAC via PSB R-289 and DJB . . . Aircraft Landing Willow Run, Ann Arbor Muni, Canton-Plymouth-Mettetal, Oakland R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. Thence . . . . Selfridge ANGB: From over LLEEO INT via 360° heading. Expect radar vectors to final

final approach course. approach course.

# ARRIVAL

COLEMAN A. YOUNG MUNI

WINDSOR

CANTON PLYMOUTH **♦** METTETAL

WILLOW

ANN ARBOR 🗘

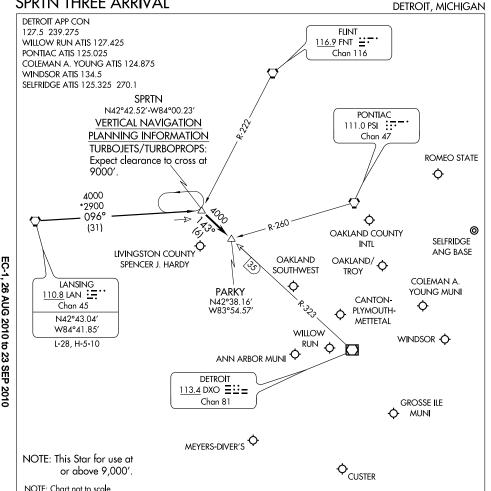
OAKLAND SOUTHWEST 🔷

SELFRIDGE ANGB

OAKLAND/ TROY

OAKIAND COUNTY NTL

LIMINGSTON



LANSING TRANSITION (LAN.SPRTN3): From over LAN VORTAC via LAN R-096 to SPRTN INT. Thence . . . .

. . . . Aircraft landing: DET, PTK, VLL, D98, MTC, ARB, YIP, ONZ, 1D2, TTF, Y47, 36MI, OZW, 3TE, YQG: From over SPRTN INT via DXO R-323

to PARKY INT. Thence . . . .

. . . . Expect radar vectors to final approach course.

MICHIGAN

0.3% up NE

MIRL

N42°25.50′ W83°52.16′

RWY 24: Thid dsplcd 300'. Tree.

NOTAM FILE LAN

147

DETROIT

COPTER

L-28J, A

DETROIT

COPTER

CHICAGO

L-281

IAP

DETROIT/GROSSE ILE

GROSSE ILE MUNI (ONZ) 2 S UTC-5(-4DT) N42°05.94′ W83°09.69′

Trees.

FUEL 100LL, JET A TPA-1591(1000) NOTAM FILE ONZ

RWY 17-35: H4425X75 (CONC) S-40, D-55, 2D-90

RWY 04-22: H4846X100 (CONC) S-66, D-83, 2D-105 RWY 04: REIL. PAPI(P4L)-GA 3.0° TCH 38'. Rgt tfc. RWY 22: REIL. PAPI (P4L)-GA 3.0° TCH 38'. Thid dspicd 428'.

RWY 17: PAPI(P4L)—GA 3.0° TCH 26'. Thid dsplcd 675'. Trees. RWY 35: PAPI(P4L)-GA 3.0° TCH 20'. Brush. Rgt tfc. AIRPORT REMARKS: Attended Mon-Fri 1300-2300Z±. Sat-Sat 1300-2200Z‡. Birds and deer on and invof arpt. Arpt CLOSED to air carrier ops with more than 30 passenger seats except PPR,

call arpt manager 734-675-0155, Rwv 04 PAPI OTS indef, Rwv

04 REIL OTS indef. MIRL Rwys 04-22 and 17-35 preset low ints dusk-0400Z‡; to increase ints and ACTIVATE after 0400Z±—CTAF, ACTIVATE REIL Rwv 04 and PAPI Rwv 17 and Rwv

35 and Rwy 22 and Rwy 04-CTAF. WEATHER DATA SOURCES: AWOS-3 119.675 (734) 692-9686 COMMUNICATIONS: CTAF/UNICOM 123.0

CARLETON RCO 122.1R 115.7T (LANSING RADIO) (R) DETROIT APP/DEP CON 134.3 GCO 121.725 (DETROIT CLNC and LANSING FSS)

5 NW

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. CARLETON (H) VORTAC 115.7 CRL Chan 104 N42°02.88' W83°27.45'

(2E8)

NDB (MHW) 419 RYS N42°06.07' W83°09.18' at fld. NOTAM FILE ONZ.

UTC-5(-4DT)

#### **DEXTER** CACKLEBERRY 290

RWY 06-24: 2113X100 (TURF)

NOTAM FILE LAN

RWY 06: Thid dspicd 315'. Trees.

AIRPORT REMARKS: Attended irregularly. Snow removal limited, check rwy condition prior to use winter months. Rwy

06-24 marked with cones; dsplcd thids marked with two cones each side. Rwy 06-24 NSTD LIRL due to color

747 B FUEL 100LL

and configuration; not for public use. **COMMUNICATIONS: CTAF 122.9** 

DOUBLE JJ RESORT RANCH (See ROTHBURY)

#### DOWAGIAC MUNI (C91) 1 NW UTC-5(-4DT) N41°59.58′ W86°07.70′

RWY 09-27: H4700X100 (ASPH) S-30. D-60 RWY 09: REIL. VASI(V4L)-GA 3.0° TCH 35'. Trees.

RWY 27: REIL, PAPI(P4L)-GA 3.0° TCH 35', Trees, Rgt tfc.

Numerous ultralights and acft with no radio on and invof arpt. Deer on and invof arpt. Model radio ctl acft opr E side of Rwy 04-22, ACTIVATE MIRL Rwv 09-27; VASI Rwv 09 and PAPI Rwv

TPA-1548(800)

RWY 04-22: 2176X100 (TURF) RWY 04: Trees. RWY 22: Thid dsplcd 388'. Tree. Rgt tfc. AIRPORT REMARKS: Attended 1300Z‡-dusk, Self svc fuel avbl 24 hrs.

27; and REIL Rwys 09 and 27-122.8. Rwy 04-22 and dspl thid marked with 3' yellow cones.

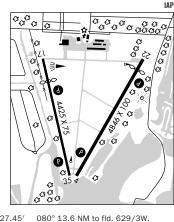
COMMUNICATIONS: CTAF/UNICOM 122.8 KEELER RCO 122.1R116.6T (LANSING RADIO)

R SOUTH BEND APP/DEP CON 118.55 (Sun-Fri 1030-0500Z, Sat 1030-0445Z), other times ctc (R)CHICAGO CENTER APP/DEP CON

127.55 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

KEELER (L) VOR/DME 116.6 ELX Chan 113 N42°08.66'

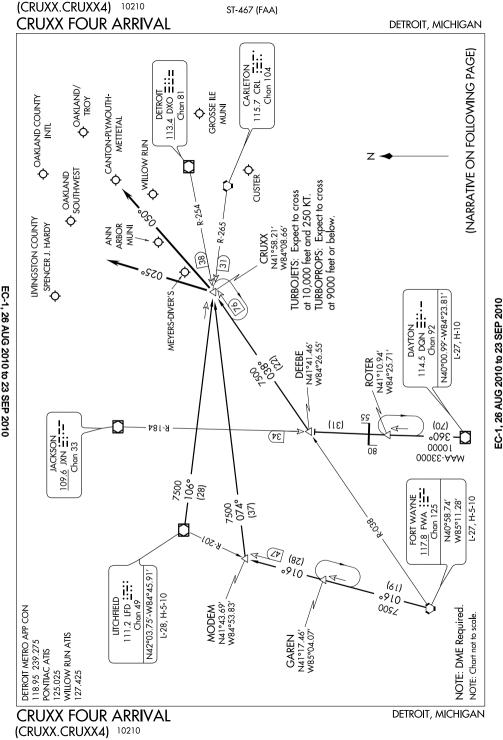
W86°07.36' 182° 9.1 NM to fld. 795/00E.



Rwy 04-22: 2176 X 100

4700 X 100

03 03 03 03



#### ARRIVAL DESCRIPTION

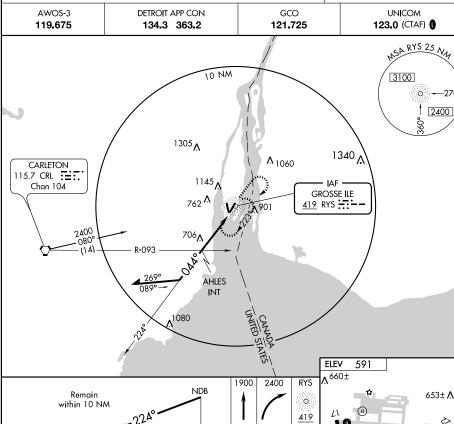
DAYTON TRANSITION (DQN.CRUXX4): From over DQN VOR/DME via DQN R-360 and JXN R-184 to DEEBE INT and FWA R-038 to CRUXX INT. Thence . . . . FORT WAYNE TRANSITION (FWA.CRUXX4): From over FWA VORTAC via FWA R-016 to MODEM INT and DXO R-254 to CRUXX INT. Thence . . . . LITCHFIELD TRANSITION (LFD.CRUXX4): From over LFD VORTAC via LFD R-106 to CRUXX INT. Thence . . . .

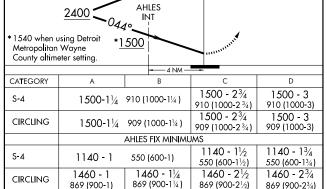
.... Aircraft landing Y47, PTK, OMI7, ØZW, ONZ, 1D2, TTF, VLL: From over CRUXX INT via 025° heading.

. . . . Aircraft landing YIP or ARB: From over CRUXX INT via 050° heading.

Expect radar vector to final approach course.

MISSED APPROACH: Climb to 1900 then climbing right turn to 2400 direct 40 feet. Increase AHLES fix minimums Circling Cat A, C, and D visibilities 1/4 mile. RYS NDB and hold.





**AHLES** INT

حح 044° to RYS NDB **TDZE 4** 590 35 REIL Rwys 4 and 22 0

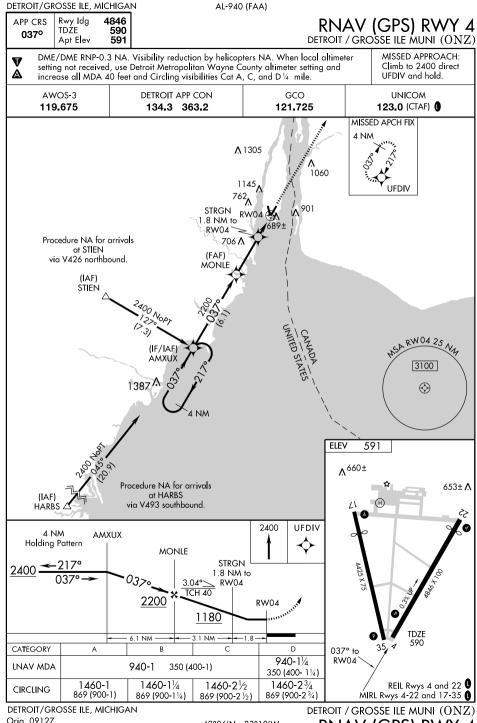
DETROIT/GROSSE ILE, MICHIGAN

EC-1, 26 AUG 2010 to 23 SEP 2010

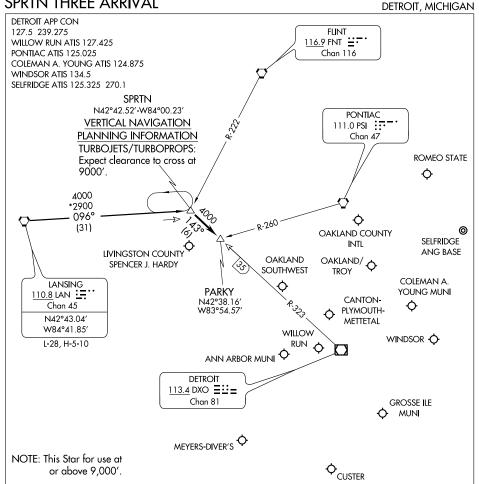
Amdt 2 09127

42°06′N - 83°10′W

DETROIT / GROSSE ILE MUNI (ONZ) NDB RWY 4



EC-1, 26 AUG 2010 to 23 SEP 2010



LANSING TRANSITION (LAN.SPRTN3): From over LAN VORTAC via LAN R-096 to SPRTN INT. Thence . . . .

. . . . Aircraft landing: DET, PTK, VLL, D98, MTC, ARB, YIP, ONZ, 1D2, TTF, Y47, 36MI, OZW, 3TE, YQG: From over SPRTN INT via DXO R-323

to PARKY INT. Thence . . . .

. . . . Expect radar vectors to final approach course.

NOTE: Chart not to scale.

DETROIT/GROSSE ILE, MICHIGAN AL-940 (FAA) VORTAC CRL N/A Rwy Idg APP CRS VOR-A 115.7 TDŹE N/A 080° Apt Elev DETROIT / GROSSE ILE MUNI (ONZ) 591 Chan 104 V When local altimeter setting not received, use Detroit Metropolitan MISSED APPROACH: Climbing right turn Wayne County altimeter setting and increase all MDA 40 feet and A to 2400 direct CRL VORTAC and hold. Cat A, C, and D visibilities ¼ mile. AWOS-3 DETROIT APP CON GCO **UNICOM** 119.675 134.3 363.2 121.725 123.0 (CTAF) 0 1391 RADAR REQUIRED <sup>1305</sup>∧ 1060 IF/IAF-CARLETON 115.7 CRL :=:. 762 A Chan 104 2200 ก์80 **ROOKS** (8) CRL 8 R-260 RADAR Procedure NA for arrivals at CRL VORTAC via V10-176-188 westbound. NSA CRL 25 My 591 **ELEV** Λ<sup>660±</sup> 3100 653± Λ (H) حح 2400 CRL **VORTAC ROOKS** CRL 8 115.7 **RADAR** CRL 13.4 080° 5.4 NM 2200 080° from FAF 2200 REIL Rwys 4 and 22 0 MIRL Rwys 4-22 and 17-35 0

DETROIT/GROSSE ILE, MICHIGAN

8 NM

Α 1460 - 1

869 (900-1)

3:36 DETROIT / GROSSE ILE MUNI (ONZ)

FAF to MAP 5.4 NM

2:42 2:10 1:48

Amdt 7 09127

CATEGORY

CIRCLING

EC-1, 26 AUG 2010 to 23 SEP 2010

D

Knots

Min:Sec

60 90 120 150 180

5:24

1460 - 23/4

869 (900-2 3/4)

С

1460 - 21/2

869 (900-21/2)

5.4 NM

1460 - 11/4

869 (900-11/4)

MICHIGAN

MIRL

N42°25.50′ W83°52.16′

RWY 24: Thid dsplcd 300'. Tree.

NOTAM FILE LAN

(ONZ) 2 S UTC-5(-4DT) N42°05.94′ W83°09.69′

FUEL 100LL, JET A TPA-1591(1000) NOTAM FILE ONZ RWY 04-22: H4846X100 (CONC) S-66, D-83, 2D-105

RWY 22: REIL. PAPI (P4L)-GA 3.0° TCH 38'. Thid dspicd 428'.

RWY 04: REIL. PAPI(P4L)-GA 3.0° TCH 38'. Rgt tfc.

RWY 35: PAPI(P4L)-GA 3.0° TCH 20'. Brush. Rgt tfc. AIRPORT REMARKS: Attended Mon-Fri 1300-2300Z±. Sat-Sat 1300-2200Z‡. Birds and deer on and invof arpt. Arpt CLOSED to

RWY 17-35: H4425X75 (CONC) S-40, D-55, 2D-90 RWY 17: PAPI(P4L)—GA 3.0° TCH 26'. Thid dsplcd 675'. Trees.

air carrier ops with more than 30 passenger seats except PPR, call arpt manager 734-675-0155, Rwv 04 PAPI OTS indef, Rwv

DETROIT/GROSSE ILE GROSSE ILE MUNI

Trees.

04 REIL OTS indef. MIRL Rwys 04-22 and 17-35 preset low ints dusk-0400Z‡; to increase ints and ACTIVATE after

0400Z±—CTAF, ACTIVATE REIL Rwv 04 and PAPI Rwv 17 and Rwv 35 and Rwy 22 and Rwy 04-CTAF. WEATHER DATA SOURCES: AWOS-3 119.675 (734) 692-9686

COMMUNICATIONS: CTAF/UNICOM 123.0 CARLETON RCO 122.1R 115.7T (LANSING RADIO) (R) DETROIT APP/DEP CON 134.3 GCO 121.725 (DETROIT CLNC and

LANSING FSS) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

CARLETON (H) VORTAC 115.7 CRL Chan 104 N42°02.88' W83°27.45'

NDB (MHW) 419 RYS N42°06.07' W83°09.18' at fld. NOTAM FILE ONZ.

UTC-5(-4DT)

#### (2E8) 5 NW 290 NOTAM FILE LAN

CACKLEBERRY

**DEXTER** 

RWY 06-24: 2113X100 (TURF) RWY 06: Thid dspicd 315'. Trees.

AIRPORT REMARKS: Attended irregularly. Snow removal limited, check rwy condition prior to use winter months. Rwy

06-24 marked with cones; dsplcd thids marked with two cones each side. Rwy 06-24 NSTD LIRL due to color

and configuration; not for public use.

747 B FUEL 100LL

**COMMUNICATIONS: CTAF 122.9** DOUBLE JJ RESORT RANCH (See ROTHBURY)

#### DOWAGIAC MUNI (C91) 1 NW UTC-5(-4DT) N41°59.58′ W86°07.70′

RWY 09-27: H4700X100 (ASPH) S-30. D-60 RWY 09: REIL. VASI(V4L)-GA 3.0° TCH 35'. Trees.

RWY 27: REIL, PAPI(P4L)-GA 3.0° TCH 35', Trees, Rgt tfc.

Numerous ultralights and acft with no radio on and invof arpt. Deer on and invof arpt. Model radio ctl acft opr E side of Rwy 04-22, ACTIVATE MIRL Rwv 09-27; VASI Rwv 09 and PAPI Rwv

TPA-1548(800)

RWY 04-22: 2176X100 (TURF) RWY 04: Trees. RWY 22: Thid dsplcd 388'. Tree. Rgt tfc. AIRPORT REMARKS: Attended 1300Z‡-dusk, Self svc fuel avbl 24 hrs.

27; and REIL Rwys 09 and 27-122.8. Rwy 04-22 and dspl thid marked with 3' yellow cones.

COMMUNICATIONS: CTAF/UNICOM 122.8 KEELER RCO 122.1R116.6T (LANSING RADIO)

R SOUTH BEND APP/DEP CON 118.55 (Sun-Fri 1030-0500Z, Sat

1030-0445Z), other times ctc (R)CHICAGO CENTER APP/DEP CON 127.55

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

KEELER (L) VOR/DME 116.6 ELX Chan 113 N42°08.66' W86°07.36' 182° 9.1 NM to fld. 795/00E.

0.3% up NE L-28J, A IAP

080° 13.6 NM to fld. 629/3W.

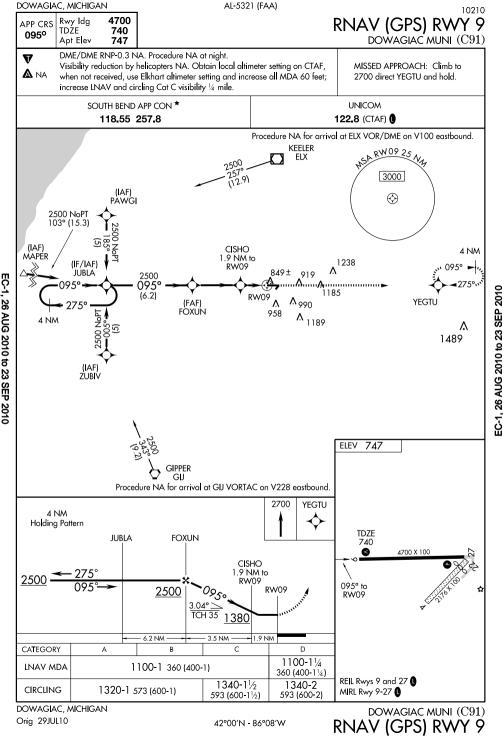
147

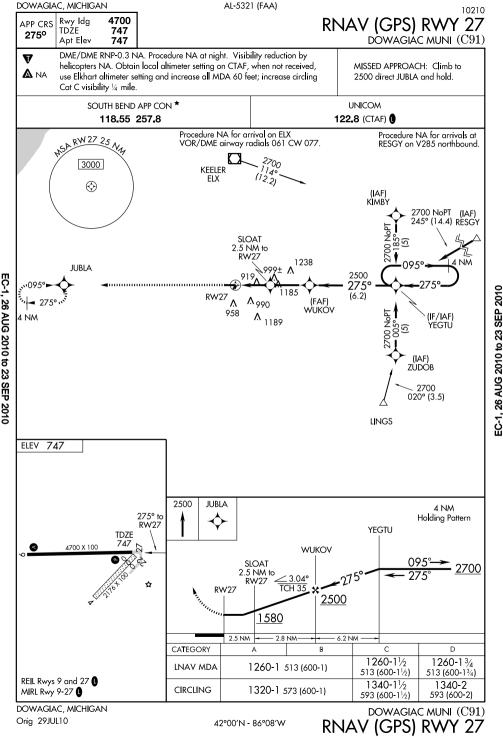
DETROIT

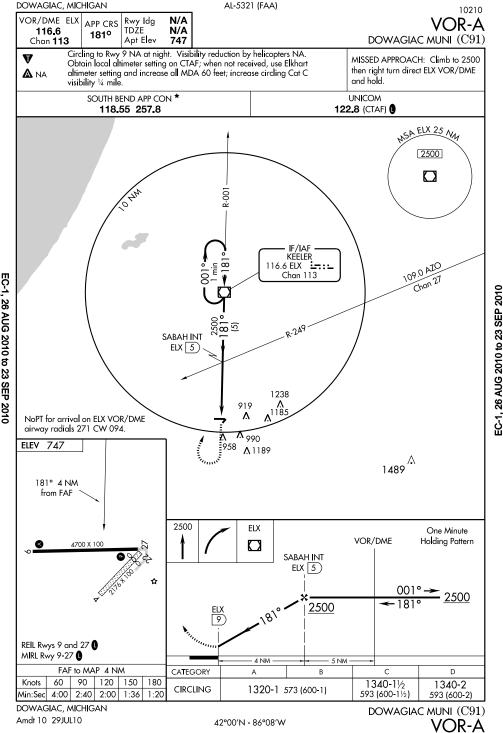
COPTER

DETROIT COPTER

CHICAGO L-281 IAP







#### DRUMMOND ISLAND (DRM) 1 SW UTC-5(-4DT) N46°00.56' W83°44.64'

FUEL 100LL, JET A. MOGAS OX 1, 3 LRA S4 NOTAM FILE DRM RWY 08-26: H4000X75 (ASPH) MIRL RWY 08: PAPI(P2L)—GA 3.0° TCH 35', Thid dspicd 650', Trees.

Chan 59

UTC-5(-4DT)

Rwy 18-36: 2500 X 150 RWY 26: PAPI(P2L)—GA 3.0° TCH 25', Thid dspicd 170', Road. B **(3** Œ

N45°07.81′ W85°06.40′

*(*3

n

rwy turf. ACTIVATE MIRL Rwy 08-26 and PAPI Rwy 08 and 26-CTAF. Flight Notification Service (ADCUS) available. WEATHER DATA SOURCES: AWOS-3 118.325 (906) 493-6410. COMMUNICATIONS: CTAF/UNICOM 122 8 (R) TORONTO CENTER APP/DEP CON 132.65

3' vellow cones. Rwv 18-36 center 20' portion of rwv from

RWY 36: Trees

AIRPORT REMARKS: Attended Mon-Sat 1300-2200Z‡, Birds and deer

invof arpt. Occasional golf carts and pedestrians crossing Rwy

RADIO AIDS TO NAVIGATION: NOTAM FILE CIU. SAULT STE MARIE (H) VOR/DME 112.2 SSM

RWY 18-36: 2500X150 (TURF)

RWY 18: Trees

W84°18.89' 139° 33.9 NM to fld. 687/4W. NDB (MHW) 218 DRM N46°00.44′ W83°44.53′ FILE DRM. Unmonitored.

(See GENESSEE)

DUPONT-LAPEER (See LAPEER)

DUFORD FLD

### EAST JORDAN CITY

(Y94)

2 SE

## NOTAM FILE LAN

RWY 09-27: H3250X50 (ASPH) MIRL

#### RWY 09: Road. RWY 27: VASI(V2L)-GA 4.0° TCH 32'. Thid dsplcd 125'. Road. RWY 18-36: 1800X120 (TURF)

RWY 18. Trees RWY 36: Trees. AIRPORT REMARKS: Unattended, Birds and deer on and invof arpt, Rwy 18-36 CLOSED indef, 1670' MSL tower 3 NM NE. ACTIVATE MIRL Rwv 9-27 and VASI Rwv 27-122.8, Rwv 18-36 marked with 3' vellow cones, Rwv 18-36

surface rough with bare spots. COMMUNICATIONS: CTAF 122 9 GAYLORD RCO 122.55 (LANSING RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. GAYLORD (L) VORW/DME 109.2 GLR

Chan 29 N45°00.75' W84°42.26'

FAST TAWAS

IOSCO CO (6D9) 3 NE UTC-5(-4DT)

В **S4** FUEL 100LL NOTAM FILE LAN RWY 08-26: H4802X75 (ASPH) S-12 MIRL

RWY 08: REIL. PAPI(P2L)-GA 3.0° TCH 33'. Tree. RWY 26: REIL. PAPI(P2L)-GA 3.0° TCH 33'. Trees. AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z‡, Sundays on call

989-362-4515. For airframe repairs call 989-362-4515. Parachute Jumping, Numerous deer on and invof arpt, ACTIVATE MIRL Rwy 08-26-122.85.

(R) MINNEAPOLIS CENTER APP/DEP CON 125 475 RADIO AIDS TO NAVIGATION: NOTAM FILE OSC. AU SABLE (H) VORW/DME 116.1

ASP W83°23.66' 195° 8.3 NM to fld. 625/7W.

€3 08-26 due to golf course on both sides. Rwy 18-36 marked with €3 intersection Rwy 18-36 N to the hangar line is asph; remainder of €3 C3 Course Œ 30,03 €3 €3 N46°24.73' A €3 at fld. NOTAM ß

ß C3

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299° 18.5 NM to fld. 1318/4W. LAKE HURON L-31C IAP

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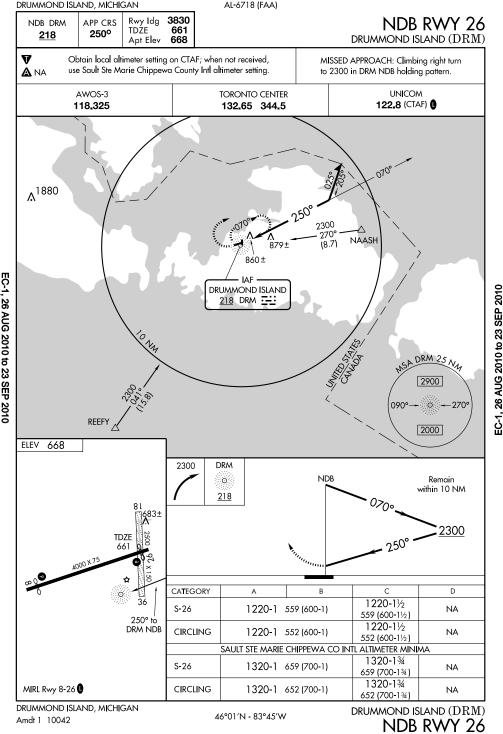
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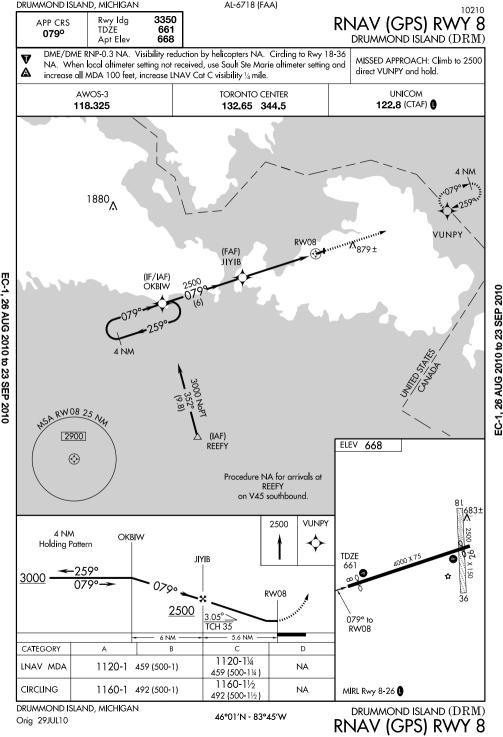
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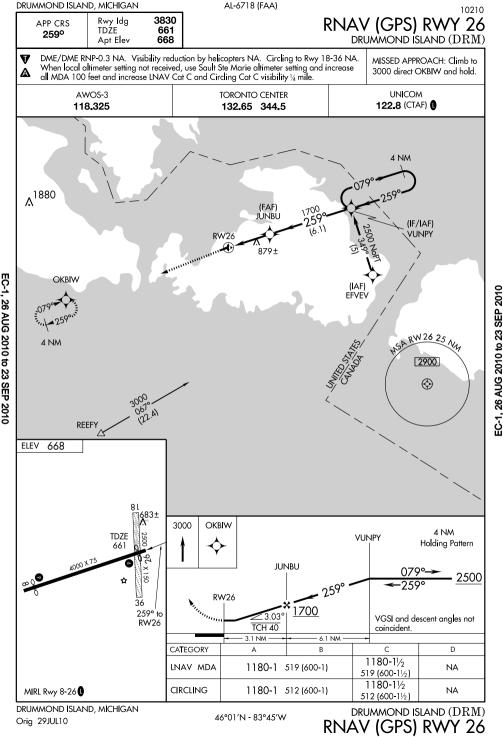
COMMUNICATIONS: CTAF/UNICOM 122.8

Chan 108 N44°26.95'

N44°18.77′ W83°25.34′







#### DRUMMOND ISLAND (DRM) 1 SW UTC-5(-4DT) N46°00.56' W83°44.64'

FUEL 100LL, JET A. MOGAS OX 1, 3 LRA S4 NOTAM FILE DRM RWY 08-26: H4000X75 (ASPH) MIRL RWY 08: PAPI(P2L)—GA 3.0° TCH 35', Thid dspicd 650', Trees.

Chan 59

UTC-5(-4DT)

Rwy 18-36: 2500 X 150 RWY 26: PAPI(P2L)—GA 3.0° TCH 25', Thid dspicd 170', Road. B **(3** Œ

N45°07.81′ W85°06.40′

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n

rwy turf. ACTIVATE MIRL Rwy 08-26 and PAPI Rwy 08 and 26-CTAF. Flight Notification Service (ADCUS) available. WEATHER DATA SOURCES: AWOS-3 118.325 (906) 493-6410. COMMUNICATIONS: CTAF/UNICOM 122 8 (R) TORONTO CENTER APP/DEP CON 132.65

3' vellow cones. Rwv 18-36 center 20' portion of rwv from

RWY 36: Trees

AIRPORT REMARKS: Attended Mon-Sat 1300-2200Z‡, Birds and deer

invof arpt. Occasional golf carts and pedestrians crossing Rwy

RADIO AIDS TO NAVIGATION: NOTAM FILE CIU. SAULT STE MARIE (H) VOR/DME 112.2 SSM

RWY 18-36: 2500X150 (TURF)

RWY 18: Trees

W84°18.89' 139° 33.9 NM to fld. 687/4W. NDB (MHW) 218 DRM N46°00.44′ W83°44.53′ FILE DRM. Unmonitored.

(See GENESSEE)

DUPONT-LAPEER (See LAPEER)

DUFORD FLD

### EAST JORDAN CITY

(Y94)

2 SE

## NOTAM FILE LAN

RWY 09-27: H3250X50 (ASPH) MIRL

#### RWY 09: Road. RWY 27: VASI(V2L)-GA 4.0° TCH 32'. Thid dsplcd 125'. Road. RWY 18-36: 1800X120 (TURF)

RWY 18. Trees RWY 36: Trees. AIRPORT REMARKS: Unattended, Birds and deer on and invof arpt, Rwy 18-36 CLOSED indef, 1670' MSL tower 3 NM NE. ACTIVATE MIRL Rwv 9-27 and VASI Rwv 27-122.8, Rwv 18-36 marked with 3' vellow cones, Rwv 18-36

surface rough with bare spots. COMMUNICATIONS: CTAF 122 9 GAYLORD RCO 122.55 (LANSING RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. GAYLORD (L) VORW/DME 109.2 GLR

Chan 29 N45°00.75' W84°42.26'

FAST TAWAS

IOSCO CO (6D9) 3 NE UTC-5(-4DT)

В **S4** FUEL 100LL NOTAM FILE LAN RWY 08-26: H4802X75 (ASPH) S-12 MIRL

RWY 08: REIL. PAPI(P2L)-GA 3.0° TCH 33'. Tree. RWY 26: REIL. PAPI(P2L)-GA 3.0° TCH 33'. Trees. AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z‡, Sundays on call

989-362-4515. For airframe repairs call 989-362-4515. Parachute Jumping, Numerous deer on and invof arpt, ACTIVATE MIRL Rwy 08-26-122.85.

(R) MINNEAPOLIS CENTER APP/DEP CON 125 475 RADIO AIDS TO NAVIGATION: NOTAM FILE OSC. AU SABLE (H) VORW/DME 116.1

ASP W83°23.66' 195° 8.3 NM to fld. 625/7W.

€3 08-26 due to golf course on both sides. Rwy 18-36 marked with €3 intersection Rwy 18-36 N to the hangar line is asph; remainder of €3 C3 Course Œ 30,03 €3 €3 N46°24.73' A €3 at fld. NOTAM ß

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299° 18.5 NM to fld. 1318/4W. LAKE HURON L-31C IAP

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COMMUNICATIONS: CTAF/UNICOM 122.8

Chan 108 N44°26.95'

N44°18.77′ W83°25.34′

EAST TAWAS, MICHIGAN Amdt 7 29JUL10

EC-1, 26 AUG 2010 to 23 SEP 2010

EAST TAWAS/ IOSCO COUNTY (6D9)

44°19'N - 83°25'W

VOR or GPS-A

**MICHIGAN** 149 **EASTPORT** TORCHPORT (59M) 3 S UTC-5(-4DT) N45°03.35′ W85°21.36′ **GREEN BAY** NOTAM FILE LAN RWY 09-27: 3300X100 (TURF) RWY 09: Trees. RWY 27: Thid dsplcd 1200'. Trees. RWY 04-22: 2600X100 (TURF) RWY 04: Tree. RWY 22: Thid dsplcd 600'. Road. AIRPORT REMARKS: Unattended. No snow removal; 110 V outlets for ski equipped acft. Rwy 09-27 and Rwy 04-22 dsplcd thlds marked with cones. Rwy 09-27 uneven rolling terrain. COMMUNICATIONS: CTAF: 122.9 EATON RAPIDS SKYWAY ESTATES (6ØG) 4 N UTC-5(-4DT) N42°35.02′ W84°39.08′ DETROIT В NOTAM FILE LAN L-28J RWY 08-26: 2653X100 (TURF) MIRL IAP RWY 08: Thid dsplcd 685'. Trees. RWY 26: Thid dspicd 200'. Trees. AIRPORT REMARKS: Unattended, Verify arpt condition during winter and spring; call 517-663-2471. Aerobatic box N of Rwy 08-26. Aerobatic practice area in 3 NM radius of arpt during dalgt hrs; €3 1500' AGL to 6000' MSL, Check with Lansing twr. Rwv 26 also. Œ apch ratio 12:1 over 28' tree, 345' distance, 15' left. ACTIVATE MIRL Rwv 08-26-CTAF, Rwv 08-26 and dsplcd thids marked with ß 3' yellow cones. NOTE: See Special Notices-Aerobatic Practice €3 €3 Area. **COMMUNICATIONS: CTAF 122.9** €3 LANSING APP/DEP CON 118.65 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. LANSING (L) VORTACW 110.8 LAN Chan 45 N42°43.04' W84°41.85' 171° 8.3 NM to fld. 887/5W.

#### EDWARD F JOHNSON (See ISHPEMING)

## **ELK RAPIDS**

#### YUBA (34U) 4 S UTC-5(-4DT) N44°50.33′ W85°25.87′

# NOTAM FILE LAN

# RWY 18-36: 2975X100 (TURF)

#### RWY 18: Trees. RWY 36: P-line.

## AIRPORT REMARKS: Unattended, Arpt CLOSED Nov thru Apr. Orchard/crops both sides of rwy, Rwy slopes down from S to N.

# COMMUNICATIONS: CTAF 122.9

# **ELWELL**

**GREEN BAY** 

DETROIT

HAMP (68R) 3 W UTC-5(-4DT) N43°23.97' W84°48.05' DETROIT 825 S4 NOTAM FILE LAN RWY 09-27: 2580X100 (TURF) RWY 09: Thid dspicd 1180'. Pole. Rwy 27: Trees. AIRPORT REMARKS: Attended continuously. Rwy 09-27 rolling terrain. Rwy 09-27 and dsplcd thlds marked with 3' yellow cones. NSTD rwy lighting, for local use only. COMMUNICATIONS: CTAF 122.9

Rwy 36: Trees.

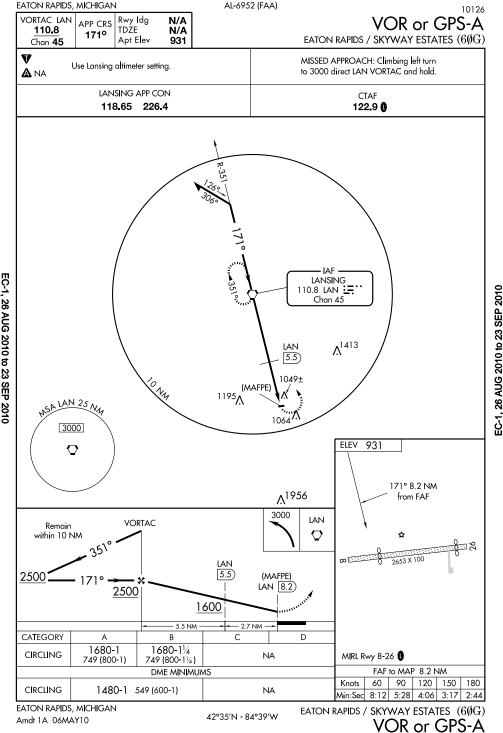
**EMMETT** SHARPE'S STRIP (2E2) 2 N UTC-5(-4DT) N42°57.10′ W82°46.56′

# NOTAM FILE LAN

RWY 18-36: 2700X90 (TURF) RWY 18: Thid dsplcd 700'. P-line.

> vellow cones. COMMUNICATIONS: CTAF 122.9

AIRPORT REMARKS: Attended irregularly. Deer and turkeys invof arpt. Rwy 18 and Rwy 36 and dsplcd thid marked with



MICHIGAN 150 **EMPIRE** (Y87) 3 SE UTC-5(-4DT) N44°47.25′ W86°00.26′ 944 NOTAM FILE LAN RWY 17-35: H2600X50 (ASPH) S-12.5 LIRL RWY 17: Thid dspled 718'. Trees. RWY 35: Thid dsplcd 182'. Trees. RWY 09-27: 2275X150 (TURF) RWY 27: Thid dsplcd 280'. Road. RWY 09: Thid dspicd 200'. Trees. AIRPORT REMARKS: Unattended, Rwy 09-27 CLOSED Dec thru Mar and when snow covered, no snow removal,

Ultralight and radio control activity on and invof arpt. Rwy 17-35 loose stones on rwy, Rwy 09-27 uneven rolling terrain, Campground adjacent to arpt; call 231-326-5285, Rwy 09-27 and dsplcd thids marked with 3' yellow cones, Rwy 35 windsock 110' E of rwy centerline, LIRL Rwy 17-35 inoperative Nov-May, ACTIVATE LIRL Rwy 17-35 Jun-Oct-CTAF. COMMUNICATIONS: CTAF 122.9

FRIF AFRODROMF (M84) 1 SW UTC-5(-4DT) N41°46.96′ W83°31.07′ 605 FUEL MOGAS NOTAM FILE LAN RWY 18-36: 2670X80 (TURF) RWY 18: Trees. RWY 36: Thid dsplcd 760, P-line.

cones.

COMMUNICATIONS: CTAF 122 9 ESCANABA N45°43.36′ W87°05.38′ NOTAM FILE ESC. (L) VORW/DME 110.8 ESC Chan 45 at Delta Co. 594/00E. HIWAS. RCO 122.3 (GREEN BAY RADIO) **ESCANABA** DELTA CO (ESC) 2 SW UTC-5(-4DT) N45°43.36′ W87°05.62′

AIRPORT REMARKS: Attended irregularly. -5' ditch N of Rwy 18: 55' left and right of centerline, Rwy 36, +34' power line 50' distance, marked with orange balls. Rwy 18 and Rwy 36 thlds and Rwy 36 dsplcd thld marked with 3'

**GREEN BAY** S2 FUEL 100LL, JET A Class I. ARFF Index A NOTAM FILE ESC H-2J, L-31B RWY 09-27: H6498X150 (ASPH-PFC) S-80, D-120, 2S-152, 2D-210 IAP RWY 09: MALSR. Trees. RWY 27: REIL. VASI(V4R)-GA 3.0° TCH 53', Trees. 81 RWY 18-36: H5015X100 (ASPH-PFC) S-40, D-60 RWY 18: PAPI(P4L)-GA 3.0° TCH 42'. Trees. RWY 36: REIL. PAPI(P4L) -GA 3.0° TCH 27'. Trees. RUNWAY DECLARED DISTANCE INFORMATION RWY 09: TORA-6498 TODA-6498 ASDA-6498 LDA-6498 RWY 18: TORA-5015 TODA-5015 ASDA-5015 LDA-5015 6498 X 150 RWY 27: TORA-6498 TODA-6498 ASDA-6498 LDA-6498 RWY 36-TORA-5015 TODA-5015 ASDA-5015 LDA-5015 AIRPORT REMARKS: Attended 1100-0400Z‡. PPR other times call 36 €3 906-420-1591. Waterfowl and birds on and invof arpt. Deer on 0000 €3 33 and invof arpt. ACTIVATE HIRL Rwy 09-27; MIRL Rwy 18-36; PAPI Rwys 18 and 36; REIL Rwy 36 and MALSR Rwy 09-CTAF. Fee for

HIWAS 110.8 ESC. COMMUNICATIONS: CTAF/UNICOM 122.8 ESCANABA RCO 122.3 (GREEN BAY RADIO) (R) MINNEAPOLIS CENTER APP/DEP CON 127.65

WEATHER DATA SOURCES: AWOS-3 121.425 (906) 786-9001.

multi engine acft.

RADIO AIDS TO NAVIGATION: NOTAM FILE ESC. ESCANABA (L) VORW/DME 110.8 ESC

Chan 45 N45°43.36' W87°05.38' PIKLE NDB (LOM) 344 ES N45°43.36′ W87°13.49′ IIS 109 3 I-ESC Rwy 09 Class IF LOM PIKLE NDB

at fld. 594/00E. HIWAS. 087° 5.5 NM to fld.

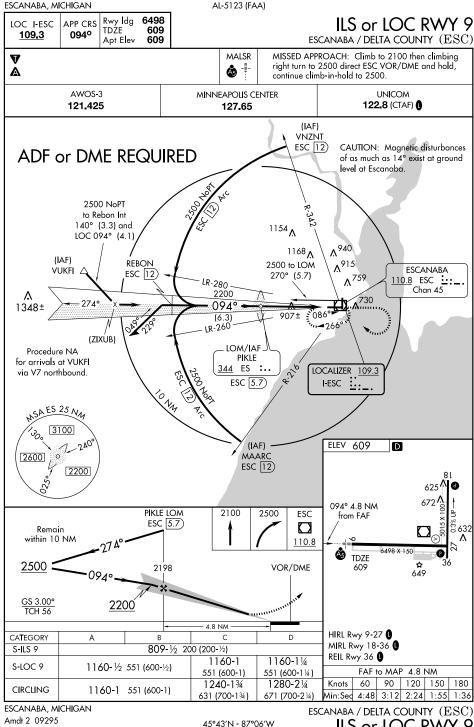
**GREEN BAY** 

DETROIT

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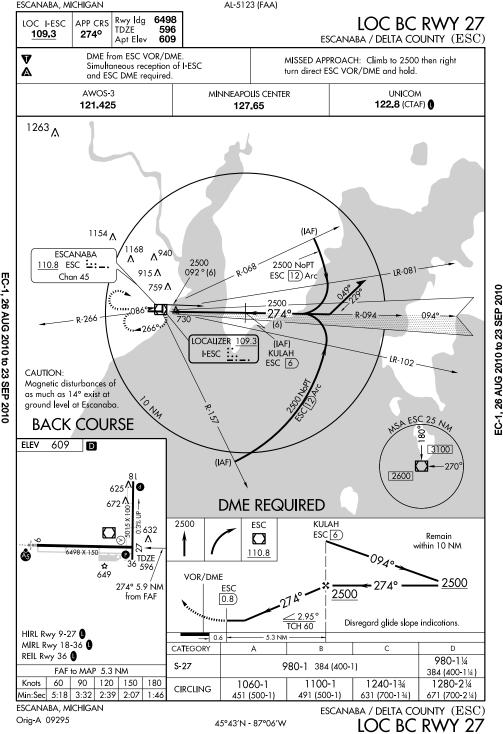
GREEN BAY

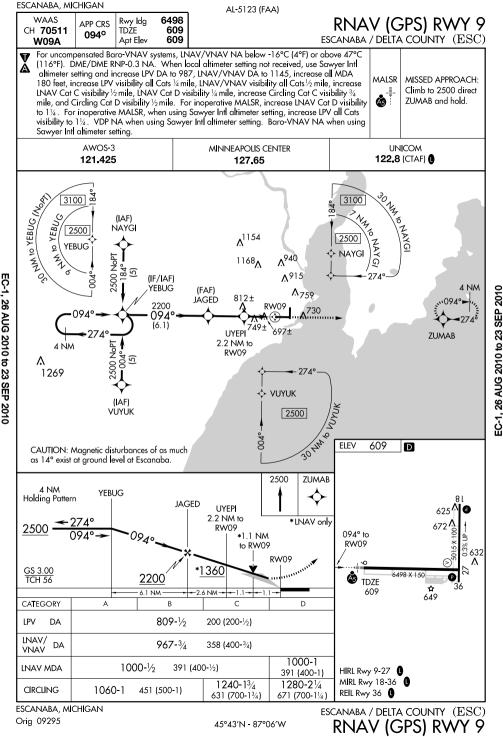
L-31B

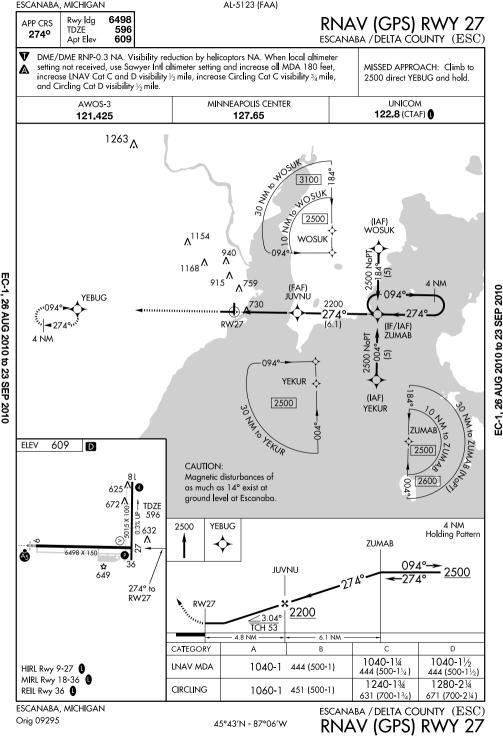


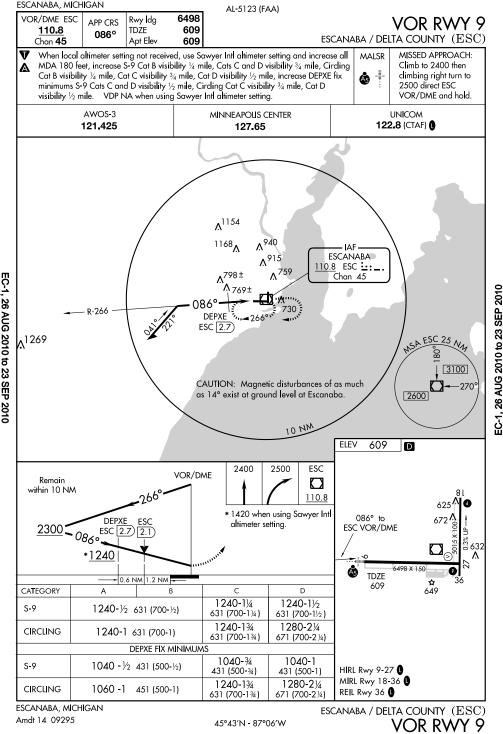
EC-1, 26 AUG 2010 to 23 SEP 2010

ILS or LOC RW





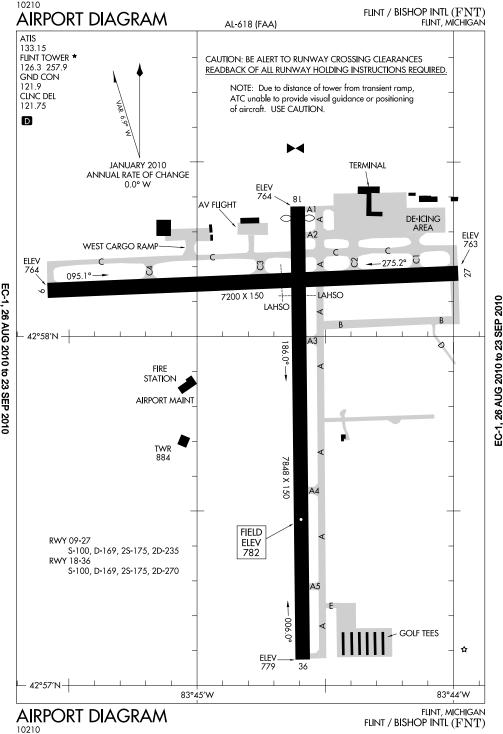




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EC-1, 26 AUG 2010 to 23 SEP 2010

VOR RWY 36



# **FLINT**

BISHOP INTL (FNT) 3 SW UTC-5(-4DT) N42°57.93′ W83°44.62′ 782 B S4

NOTAM FILE FNT

2D-235 HIRL RWY 09: MALSR. Trees.

TCH 56'. Trees. LAND AND HOLD SHORT OPERATIONS DIST AVBL

RWY 09-27: H7200X150 (ASPH-PFC) S-100, D-169, 2S-175.

FUEL 100LL, JET A TPA—See Remarks

RWY 27: MALSR. VASI(V4L)-GA 3.0°

RWY 18-36: H7848X150 (ASPH-PFC) S-100, D-169, 2S-175, 2D-270 RWY 18: VASI(V4L)-GA 3.0° TCH 41'. Thid dspicd 200'. Tree.

LANDING HOLD SHORT POINT RWY 09 18-36 **RWY 36** 09 - 27

4100 6300 RUNWAY DECLARED DISTANCE INFORMATION

RWY 36: VASI(V4L)-GA 3.0° TCH 54'. Tree.

RWY 18: TORA-7848 TODA-7848 ASDA-7848 LDA-7648 RWY 36: TORA-7848 TODA-7848 ASDA-7648 LDA-7648 AIRPORT REMARKS: Attended continuously. Birds and deer on and invof

arpt. TPA-1582(800) single-engine, 1982(1200) multi-engine acft, ACTIVATE MALSR Rwv 09-27-CTAF, Rwv lgts preset-no ints change avbl when twr clsd. WEATHER DATA SOURCES: ASOS (810) 232-4477.

COMMUNICATIONS: CTAF 126.3 ATIS 133.15 UNICOM 122.95 FLINT RCO 122.3 (LANSING RADIO) (R) FLINT APP CON 128.55 (N/W of active rwy) 118.8 (E/S of active rwy) 133.8 (1045-0430Z‡) CLEVELAND CENTER APP/DEP CON 126.75 (0430-1045Z‡)

FLINT TOWER 126.3 (1045-0430Z‡) GND CON 121.9

AIRSPACE: CLASS C svc 1045-0430Z± ctc APP CON 128.55 (N/W of active rwv) 118.8 (E/S of active rwv) other times CLASS E. RADIO AIDS TO NAVIGATION: NOTAM FILE FNT.

FLINT (H) VORTACW 116.9 FNT Chan 116 N42°58.01′ W83°44.82′ PETLI NDB (LOM) 269 FN N42°58.09′ W83°53.41′ 097° 6.5 NM to fld.

ILS 109.9 I-FNT Rwv 09. LOM PETLI NDB. Class IB.

ILS 109.9 I-TUN Rwv 27. ASR (1045-0430Z‡)

FUEL: 100LL

DALTON

FLYING M RANCH

**FLUSHING** (3DA) 2 E UTC-5(-4DT) N43°03.15′ W83°48.29′

NOTAM FILE LAN

#### RWY 18-36: H2510X50 (ASPH) LIRL RWY 18: Thid dspicd 771'. Tree. RWY 36: Thid dsplcd 771'. Trees. RWY 09-27: 1633X130 (TURF)

RWY 09: Tree. RWY 27: Thid dspicd 293'. Road. AIRPORT REMARKS: Attended irregularly. Fuel available by credit card. Rwy 09-27 CLOSED Oct through Mar. Rwy

09-27 CLOSED to transient acft permanently, Rwy 09-27 marked with 3' vellow cones, ACTIVATE LIRL Rwy 18-36-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

FLYING-A-RANCH

Mobile Home Park 348 150 ⊒≌ iiii 🌣 36 Mu. Home C3 Park €3 Ø

AOE Class I, ARFF Index B

DETROIT

IAP, AD

H-10G, 11A, L-28J

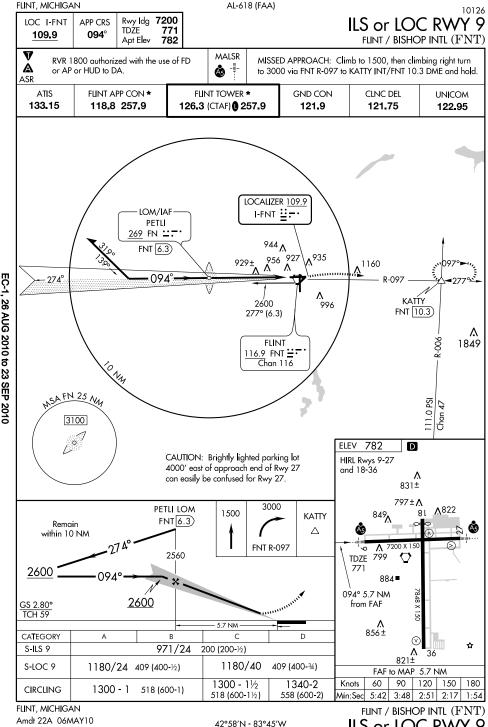
Ø 63 **CLNC DEL** 121.75 at fld. 772/6W.

COMM/NAV/WEATHER REMARKS: Emerg frequencies not avbl at twr. ILS Rwys 09, 27 and NDB unmonitored when twr clsd. DETROIT

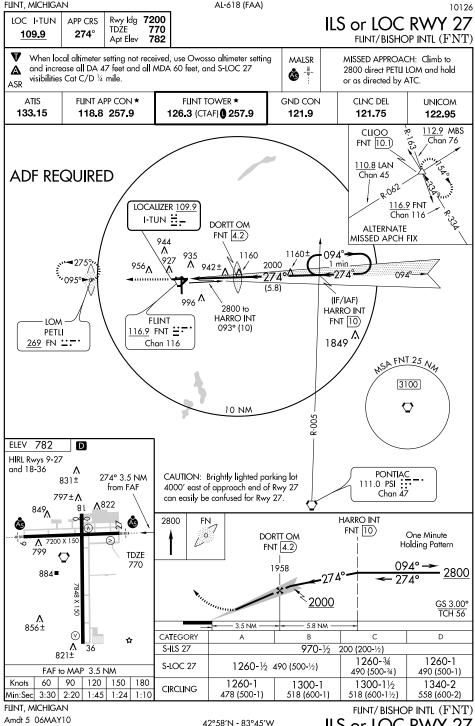
(See FRUITPORT)

(See LINCOLN)

FORD (See IRON MOUNTAIN/KINGSFORD)

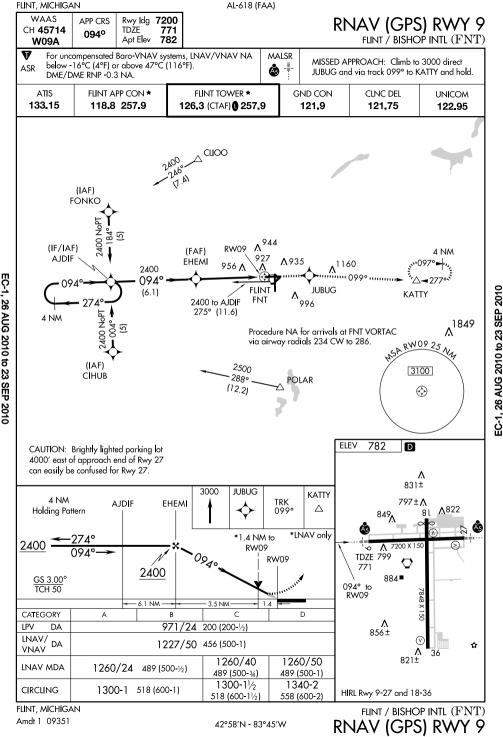


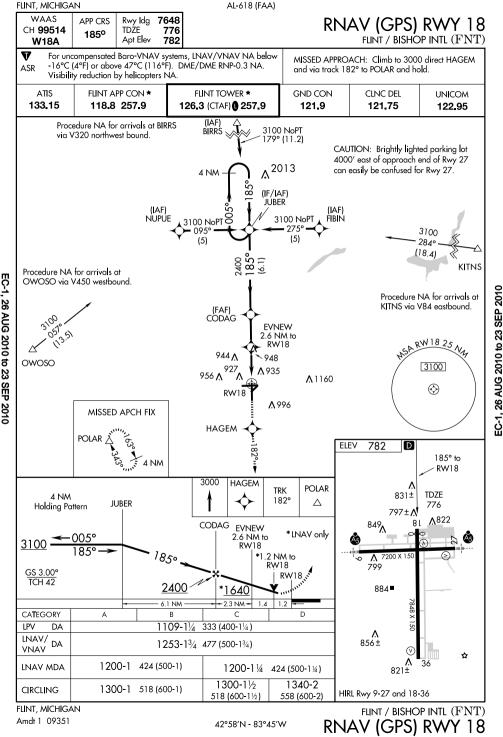
ILS or LOC RV

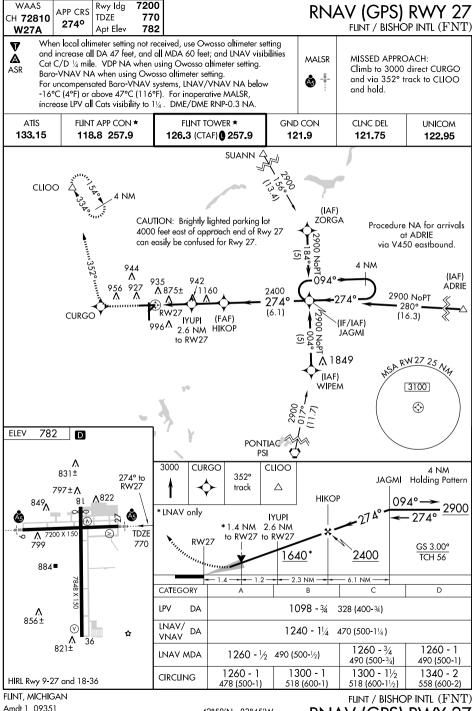


EC-1, 26 AUG 2010 to 23 SEP 2010

ILS or LOC RWY 27







AL-618 (FAA)

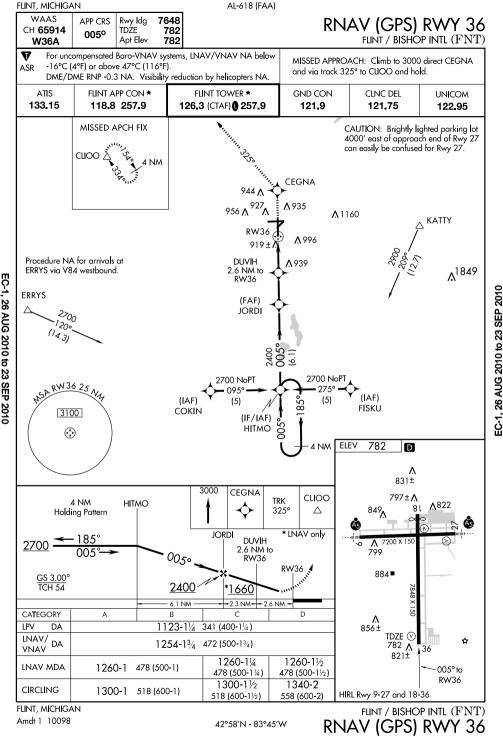
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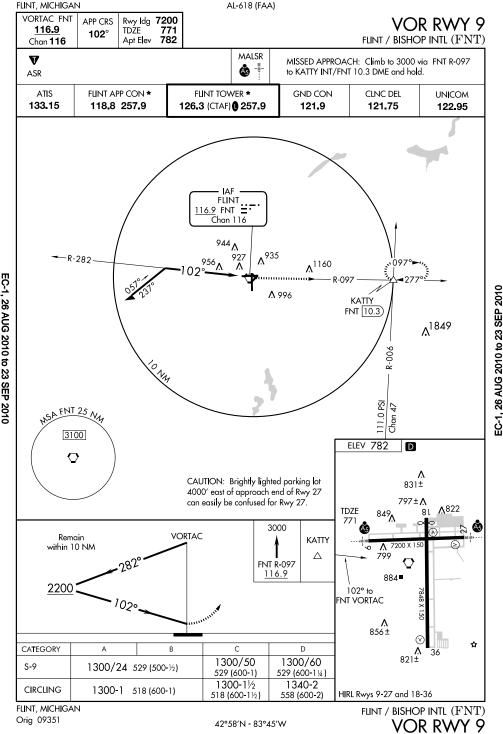
FLINT, MICHIGAN

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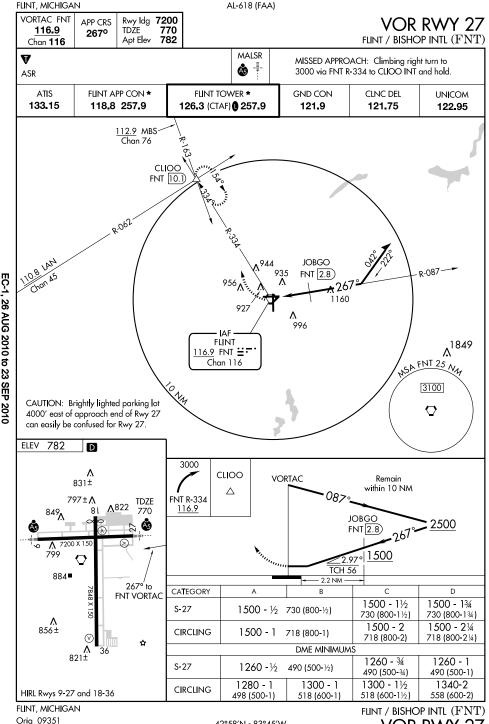
26 AUG 2010 to 23 SEP 2010

42°58'N - 83°45'W RNAV (GPS)





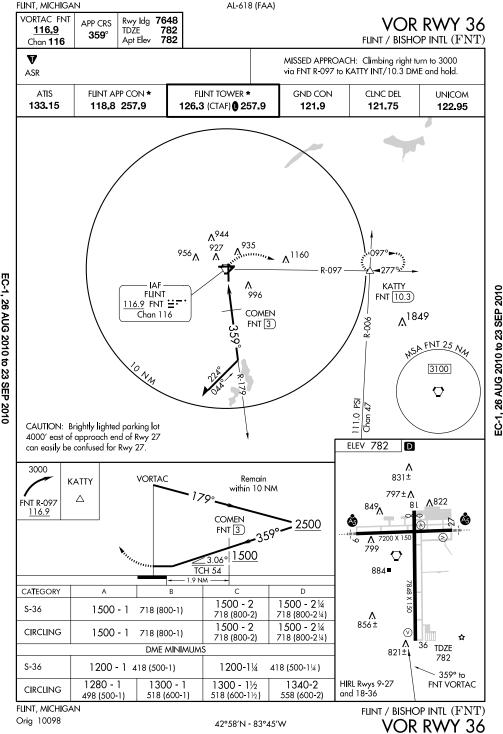
FLINT, MICHIGAN AL-618 (FAA) VORTAC FNT Rwy Idg 7648 VOR RWY 18 APP CRS 116.9 779 TDŹE 196° 782 FLINT / BISHOP INTL (FNT)Apt Elev Chan 116 V MISSED APPROACH: Climbing left turn to 3000 ASR via FNT R-097 to KATTY INT and hold. ATIS FLINT APP CON ★ FLINT TOWER ★ GND CON CLNC DEL UNICOM 133,15 118.8 257.9 126.3 (CTAF) @ 257.9 121.9 121.75 122.95 NSA FNT 25 NA 3100  $\bigcirc$ **HEBUB** FNT 2.7 944 A **∾**,<sup>930</sup> ۸<sup>1160</sup> <sup>956</sup>∧ 927 EC-1, 26 AUG 2010 to 23 SEP 2010 935 R-097 ۸<sup>996</sup> KATTY FNT [10.3) · IAF · **FLINT** Λ<sup>1849</sup> 116.9 FNT **∷**-PSI 4 111.0 Chan, CAUTION: Brightly lighted parking lot 4000' east of approach end of Rwy 27 ELEV 782 D can easily be confused for Rwy 27. 3000 **KATTY VORTAC** Remain 196° to 831± within 10 NM **FNT VORTAC** 0160. Δ 797± \Lambda FNT R-097 **∿**855 849 TDZE 81 116.9 **HEBUB** 2500 FNT 2.7 **^** 799 7200 X 150 3.02°| 1560 TCH 41 884■ 2.2 NM CATEGORY 1560 - 21/2 1.560 - 11560 - 11/4 1560 - 21/4 S-18 781 (800-1) 781 (800-11/4) 781 (800-21/4) 781 (800-21/2) **∧** 856± 1560 - 11/4 1560 - 21/4 1560 - 21/2 1560 - 1 CIRCLING (V) 778 (800-1) 778 (800-11/4) 778 (800-21/4) 778 (800-21/2) DME MINIMUMS **∧** 821± 36 1300-13/4 1300-11/2 S-18 1300 - 1 523 (600-1) 523 (600-11/2) 523 (600-134) 1300 - 11300 - 11300-11/2 1340-2 CIRCLING HIRL Rwys 9-27 and 18-36 518 (600-1) 518 (600-11/2) 558 (600-2) 518 (600-1) FLINT, MICHIGAN FLINT / BISHOP INTL (FNT) Orig-A 09351 42°58'N - 83°45'W VOR RWY 18



Orig 09351

42°58'N - 83°45'W

VOR RWY 27



N42°43 04' W84°03 75'

RWY 36: Thid dspicd 275', Road. AIRPORT REMARKS: Attended irregularly. Parachute Jumping. Maple Grove Arpt is collocated with Maple Grove Heliport, be alert for rotary wing acft. Extensive acft training, two-way radio communications rgr. ACTIVATE LIRL Rwy 09-27-CTAF, Rwy 09-27 marked with 8 by 12 inch reflective cylinders and 3' cones; dsplcd thid marked with

3 N S4 FUEL 100LL NOTAM FILE LAN RWY 09-27: 3050X110 (TURF) LIRI RWY 09: Thid dspicd 200'. Ground. RWY 27: Thid dspicd 300'. Road.

(65G)

RWY 18-36: 2000X113 (TURF) RWY 18: Thid dsplcd 550', P-line.

three 3' yellow cones. Rwy 09-27 and Rwy 18-36 and dsplcd thids marked with cones. COMMUNICATIONS: CTAF/UNICOM 122 8

2 SE

RWY 27: P-line.

UTC-5(-4DT)

MAPLE GROVE HELIPORT (E66) UTC-5(-4DT) N42°43.03′ W84°03.72′ 4 N S4 NOTAM FILE LAN 908 HELIPAD H1: H32X32 (TURF)

HELIPAD H2: H12X12 (CONC) HELIPAD H3: H20X20 (MATS) HELIPORT REMARKS: Attended 1400-2200Z‡. Maple Grove Heliport is collocated with Maple Grove Arpt, be alert for fixed wing acft. Extensive aircraft training, two-way communications required. Helipad H2 marked with cones. H1 gnd level helipad. H2 gnd level helipad. H3 raised level helipad. Max gross weight 3000 lbs. ACTIVATE H2

Helipad H3 TRCV shine N. Helipad H1 perimeter lgts, Helipad H2 and Helipad H3 NSTD TRCV. COMMUNICATIONS: CTAF 122.8

#### FRANKENMUTH WM "TINY" ZEHNDER FLD (66G) NOTAM FILE LAN

RWY 09-27: 2530X100 (TURF) RWY 09: Thid dspicd 400'. Road.

COMMUNICATIONS: CTAF 122.9

Trees.

**FOWLERVILLE** MAPLE GROVE

> AIRPORT REMARKS: Attended irregularly. Snow removal intermittent; verify condition call 989-652-3652 or 989-652-9371. Rwy 09-27 soft in spring and after heavy rain. Rwy 09, 7' ditch 60' from thld. Rwy 09-27 marked with 3' yellow cones including Rwy 09 dsplcd thld. Rwy 09-27 LIRL not for public use.

FRANKFORT DOW MEMORIAL FIELD 2 SE (FKS) UTC-5(-4DT)FIIFI 100LL NOTAM FILE LAN RWY 15-33: H4050X75 (ASPH) S-25 RWY 15: Thid dspicd 1094', Road.

RWY 33: REIL, PAPI(P2R)—GA 3.0° TCH 25', Thid dspicd 111'.

AIRPORT REMARKS: Unattended, Fuel self-service with major credit

card. Extensive soaring activity and glider towing ops W of rwy. Radio controlled model acft opr W of rwy. Deer and birds on and invof arpt. Arpt bcn located on hill 1.25 miles NW of arpt. ACTIVATE MIRL Rwy 15-33; REIL Rwy 33; PAPI Rwy 33-CTAF. WEATHER DATA SOURCES: AWOS-3 118.325 (231) 352-7573. COMMUNICATIONS: CTAF/UNICOM 123 05 (R) MINNEAPOLIS CENTER APP/DEP CON 132.9

GCO 121.725 (MINNEAPOLIS CENTER and FLIGHT SERVICES) RADIO AIDS TO NAVIGATION: NOTAM FILE MBL.

MANISTEE (L) VOR/DME 111.4 MBL Chan 51 N44°16.24' W86°15 24' 011° 21.4 NM to fld. 618/5W. COMM/NAV/WEATHER REMARKS: AWOS-3 wind unreliable

and H3 perimeter lgts and NSTD TRCV-123.025. H1, H2 and H3 FATO 70'x70'. Helipad H2 TRCV shines E. UTC-5(-4DT) N43°18.84′ W83°42.58′ DETROIT

N44°37.51′ W86°12.05′

€ €3 cs <sup>C3</sup> €3 03 03

**GREEN BAY** I-31B

IAP

€3

€3

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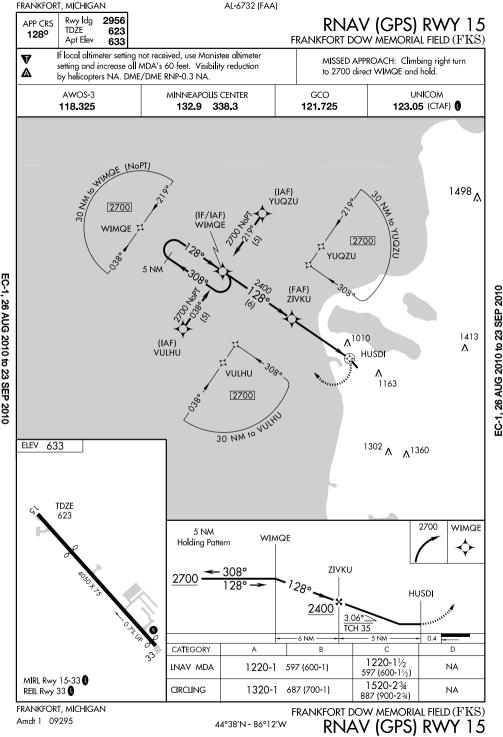
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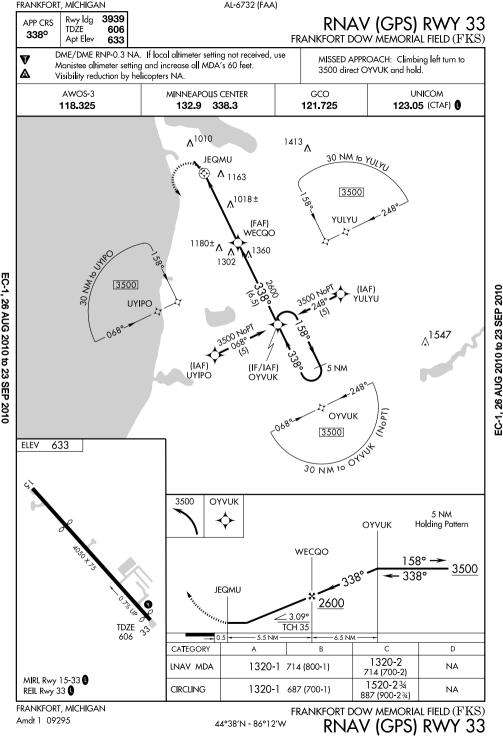
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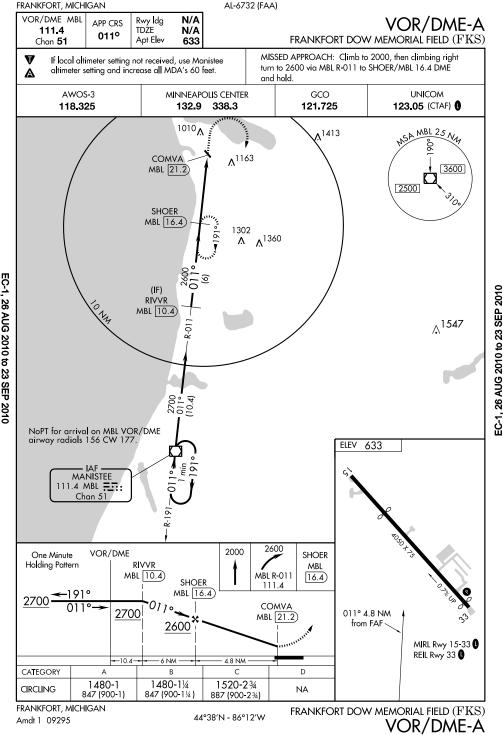
COPTER

DETROIT

COPTER







FREMONT MUNI (FFX) 3 SW UTC-5(-4DT) N43°26.36′ W85°59.69′ CHICAGO FUEL 100LL, JET A NOTAM FILE LAN 772 B S4 H-2K, 10F, L-28I RWY 18-36: H6498X100 (ASPH) S-30 MIRI IAP RWY 18: REIL. PAPI(P4L)—GA 3.0° TCH 25', P-line. Rwy 9-27: 3502 X 75 RWY 36: REIL. VASI(V2L)—GA 3.0° TCH 45'. Tree. RWY 09-27: H3502X75 (ASPH) S-16 **6** · III.. RWY 27: PAPI(P4L)-GA 3.7° TCH 25'. Trees. AIRPORT REMARKS: Attended 1300Z±-dusk. For syc after hrs call 231-821-0494, Parachute Jumping, Skydiving activity summer months, weekends SR-SS, occasional weekdays noon-SS. Seaplane activity on adjacent lake .5 mile NE of arpt. Rwy 18-36

pavement cracking and loose stones on pavement, +8' crops 5498 X adjacent to rwys during growing season. PAPI Rwy 18 OTS indef. **(3** ACTIVATE MIRL Rwy 09-27 and Rwy 18-36, REIL Rwy 18 and Rwy 36. VASI Rwv 36 and PAPI Rwv 18 and Rwv 27-CTAF. (3 WEATHER DATA SOURCES: AWOS-3 118.775 (231) 928-0715. €3 ß COMMUNICATIONS: CTAF/UNICOM 123.0 €3 (R) MUSKEGON APP/DEP CON 119.8 (1100-0400Z‡) CLNC DEL 118.25 Œ €3 (R) CHICAGO CENTER APP/DEP CON 128.5 (0400-1100Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE MKG MUSKEGON (L) VORTACW 115.2 MKG Chan 99 N43°10.16' W86°02.36' 008° 16.3 NM to fld. 659/1W. HIWAS.

**FRUITPORT** 

630 S4 TPA-1430(800) NOTAM FILE LAN

RWY 09: Thid dspicd 327', Trees. RWY 27: Trees. Rgt tfc.

FLYING-A-RANCH (39Z) 2 SE UTC-5(-4DT) N43°06.30′ W86°07.42′

AIRPORT REMARKS: Attended irregularly. Arpt is CLOSED Nov-Mar. No snow removal. Fuel avbl for emerg use only. Rwy

09-27 and dsplcd thid marked with 3' yellow cones. Rwy 09-27 LIRL not for public use.

(L) VORW/DME 109.2 GLR Chan 29 at Gaylord Rgnl. 1318/4W.

VOR portion unusable 182°-195°. DME unusable byd 30 NM blo 3500'.

**COMMUNICATIONS: CTAF 122.9** 

GALFY N47°06.94′ W88°24.07′ NOTAM FILE CMX.

NDB (MHW/LOM) 275 CM 313° 4.8 NM to Houghton Co Mem. Unmonitored.

GARLAND (See LEWISTON)

RCO 122 55 (LANSING RADIO)

RWY 09-27: 1925X70 (TURF)

**GAVAGAN FLD** (See YALE)

GAYLORD

N45°00.75′ W84°42.26′

NOTAM FILE LAN.

CHICAGO

GRFFN RAY L-14J

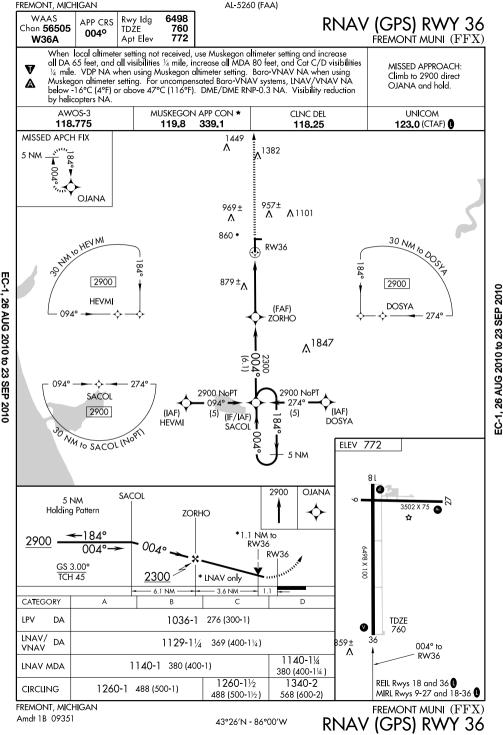
LAKE HIIRON

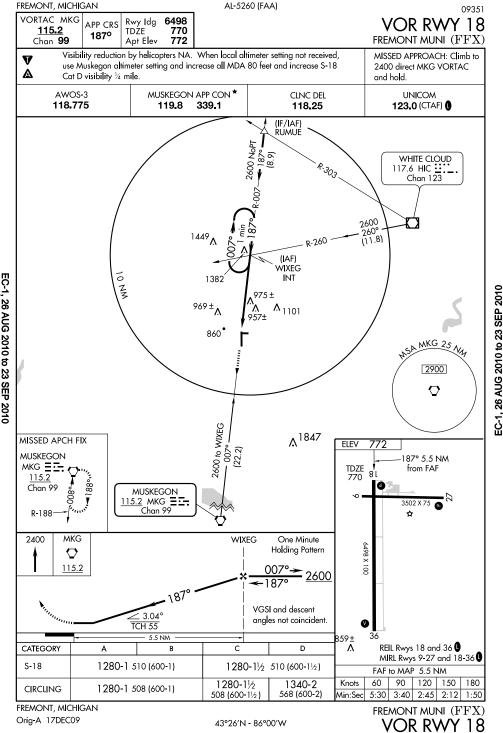
I-31C

Amdt 1B 09351

EC-1, 26 AUG 2010 to 23 SEP 2010

**RNAV** 43°26'N - 86°00'W (GPS)





H-2K. L-31C 03 03 03 6578 X 150 (d)

155

LAKE HIIRON

Deer and birds on and invof arpt, Rwy 18-36 extensive cracking in 333 R4201A/B. ACTIVATE HIRL Rwy 09-27 and MIRL Rwy 18-36; REIL

GAYLORD (L) VORW/DME 109.2 GLR Chan 29 N45°00.75' W84°42.26' at fld. 1318/4W.

BANGU NDB (LOM) 375 GL N45°00.88' W84°48.48' 097° 4.4 NM to fld.

LAKES OF THE NORTH (4Y4) 11 SW UTC-5(-4DT) N44°54.75′ W84°52.59′ 1286 В NOTAM FILE LAN RWY 05-23: H4285X40 (ASPH) RWY 05: Thid dspicd 400', Road.

Rwy 09.

Class IE. LOM BANGU NDB

WEATHER DATA SOURCES: ASOS 118.375 (989) 732-1571.

RWY 23: Thid dspicd 450', Road. AIRPORT REMARKS: Attended 1400-2200Z‡, Sat 1400-1800Z‡. Deer on and invof arpt. Rwy 05-23 sfc rough and uneven, extensive cracks in pavement. Rwy slopes upward from E to W. West end approximately 20' higher than E end. Acft parking in primary sfc. N

side, E end. ACTIVATE arpt beacon and LIRL Rwy 05-23-CTAF. COMMUNICATIONS: CTAF 122.9 GAYLORD RCO 122.55 (LANSING RADIO) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. GAYLORD (L) VORW/DME 109.2 GLR Chan 29 N45°00.75'

W84°42.26' 237° 9.5 NM to fld. 1318/4W.

1 NW

L-31B €3 Ø ß €3 C3 C3 C3 C3 æ

## GENESEE DUFORD FLD (68G) NOTAM FILE LAN

cones

GAYLORD RGNL

1328 B S4

(GLR)

RWY 18-36: H3319X75 (ASPH) S-12.5 RWY 18: PAPI(P4R)-GA 3.0° TCH 40'. Trees. RWY 36: PAPI(P4R)—GA 3.0° TCH 40', Road. AIRPORT REMARKS: Attended Mon-Fri 1200-0100Z±. Sat-Sun 1300-0100Z±. For attendant after hours call 989-732-4218

Rwy 27 and MALSR Rwy 09-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8 GAYLORD RCO 122.55 (LANSING RADIO) (R) MINNEAPOLIS CENTER APP/DEP CON 134.6 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

I\_GLR

1 SW

RWY 09-27: H6578X150 (ASPH) D-100, 2S-127 RWY 09: MALSR, PAPI(P4L)—GA 3.0° TCH 25', Trees. RWY 27: REIL. PAPI(P4L)—GA 3.0° TCH 25'. Trees.

UTC-5(-4DT)

FUEL 100LL, JET A NOTAM FILE GLR

during attended hours. After hours call 989-370-9484 (manager cell). Unattended Thanksgiving, Christmas and New Years Day.

payement, Landing fee for turbines, jets and twins, Landing fee waived with minimum fuel purchase. Overnight parking fee. Military training activity invof arpt associated with Restricted Area

DETROIT

LAKE HURON

GERALD R FORD INTL (See GRAND RAPIDS)

RWY 18-36: 3068X100 (TURF) RWY 18: Thid dspicd 200'. Trees.

**COMMUNICATIONS: CTAF 122.9** 

804/0E. HIWAS.

GIPPER N41°46.12′ W86°19.11′. NOTAM FILE LAN.

CHICAGO

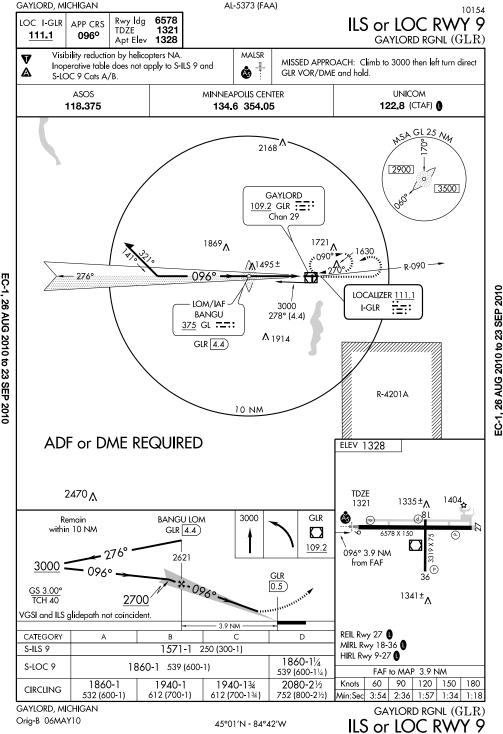
H-5E, 10F, L-28I

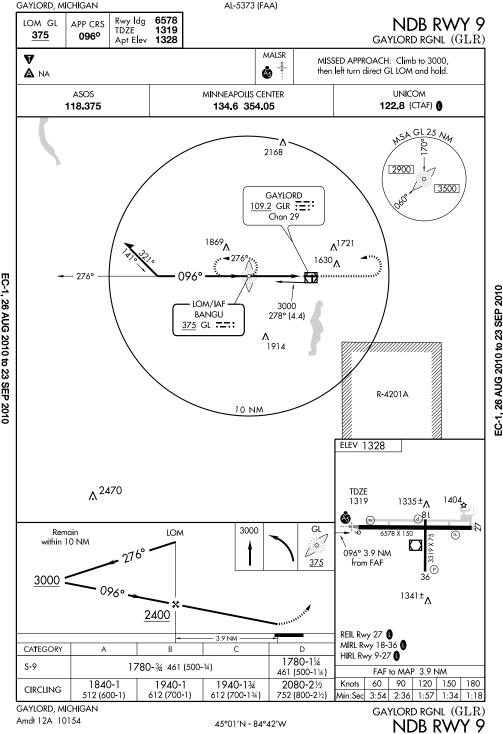
(H) VORTACW 115.4 GIJ Chan 101 179° 3.6 NM to South Bend Rgnl.

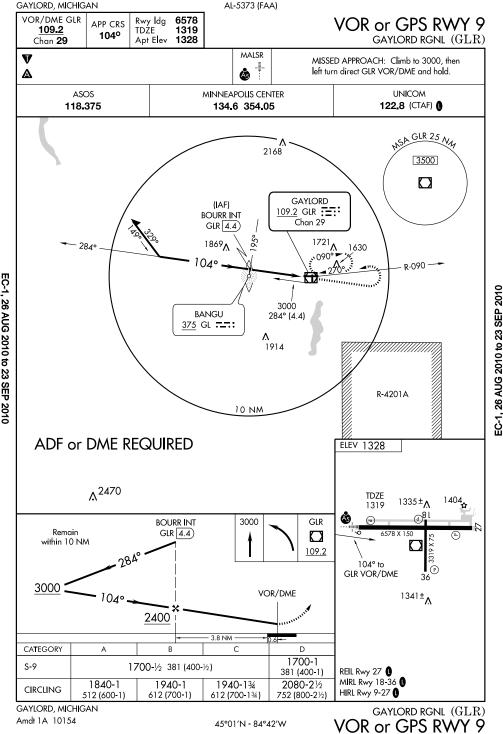
UTC-5(-4DT) N43°07.50′ W83°37.58′

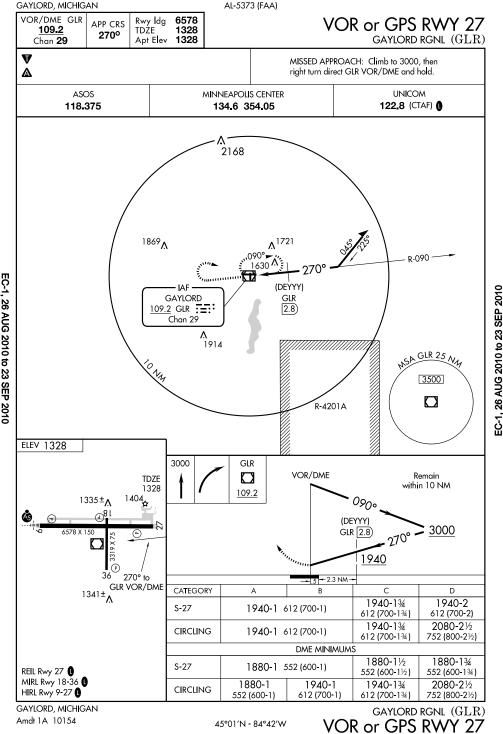
RWY 36: Thid dspicd 1020'. Tree. AIRPORT REMARKS: Attended irregularly. Rwy 18-36 sfc rough with irregular mowing. Rwy 18-36 marked with 3' yellow

VOR portion unusable 199°-219° blo 17 500′ and between 25 and 36 NM









### GLADWIN ZETTEL MEML (GDW) 1 SE UTC-5(-4DT) N43°58.24′ W84°28.50′ FIIFI 10011 IFT A TPA-1776(1000) NOTAM FILE LAN RWY 09-27: H4700X75 (ASPH) S-44, D-60, 2D-90

MIRL

at fld.

RWY 09: REIL, PAPI(P2L)—GA 3.0°, Trees.

RWY 27: REIL. PAPI(P2L). Trees.

RWY 15-33: 2500X150 (TURF) RWY 15: Trees RWY 33: Trees

AIRPORT REMARKS: Attended 1400-2200Z±. Except Christmas: New

Years; Thanksgiving and Easter; for attendant and after hrs call 989-578-2174. Rwv 15-33 CLOSED when snow covered except ski-equipped acft, Rwv 15-33 marked with 3' vellow cones, Deer activity on and invof arpt. Radio Control acft ops near W side of

Rwv 15-33, Rwv 09 REIL OTS indef, ACTIVATE MIRL Rwv 09-27: PAPI and REIL Rwy 09 and Rwy 27-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8

(R) SAGINAW APP/DEP CON 126.45 (1100-0400Z±) CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE MBS.

SAGINAW (I) VORW/DMF 112 9 MBS Chan 76 N43°31 90' W84°04.64' 330° 31.5 NM to fld. 663/3W.

WIGGINS NDB (MHW) 209 GDW N43°58.20' W84°28.50'

NOTAM FILE LAN GLOWACKI (See ST JOHNS)

GOGEBIC-IRON CO (See IRONWOOD)

GRADOLPH FLD

(See PETERSBURG)

GRAND HAVEN MEML AIRPARK (3GM) 2 SE

FUEL 100LL 604 R S4 NOTAM FILE LAN RWY 09-27: H3752X75 (ASPH) S-8 MIRL

RWY 09: REIL. PAPI(P2L)-GA 3.0° TCH 32'. Tree. RWY 27: REIL, PAPI(P2L)—GA 4.0° TCH 54', Trees.

RWY 18-36: H2058X60 (ASPH) S-8 RWY 18: Road. RWY 36: Tree.

AIRPORT REMARKS: Attended 1300Z±-dusk, Radio control acft flying

REIL and PAPI Rwys 09 and 27-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.7 (R) MUSKEGON APP/DEP CON 119.8 (1100-0400Z±)

(R) CHICAGO CENTER APP/DEP CON 128.5 (0400-1100Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE MKG.

MUSKEGON (L) VORTACW 115.2 MKG Chan 99 N43°10.16'

W86°02.36' 222° 10.7 NM to fld. 659/1W. **2AWIH** 

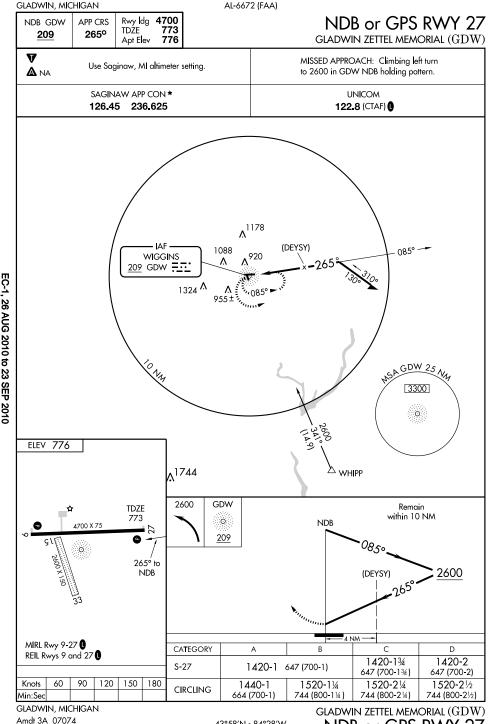
ΙΔΡ Residential County airaround Ball Field añ 4700 X 75 Waste Treatment Ponds

DETROIT

I-281 31C

UTC-5(-4DT) N43°02.04′ W86°11.89′ CHICAGO

L-281 IAP area NW side of Rwv 18, ACTIVATE MIRL Rwvs 09-27 and 18-36:



### GLADWIN ZETTEL MEML (GDW) 1 SE UTC-5(-4DT) N43°58.24′ W84°28.50′ FIIFI 10011 IFT A TPA-1776(1000) NOTAM FILE LAN RWY 09-27: H4700X75 (ASPH) S-44, D-60, 2D-90

MIRL

at fld.

RWY 09: REIL, PAPI(P2L)—GA 3.0°, Trees.

RWY 27: REIL. PAPI(P2L). Trees.

RWY 15-33: 2500X150 (TURF) RWY 15: Trees RWY 33: Trees

AIRPORT REMARKS: Attended 1400-2200Z±. Except Christmas: New

Years; Thanksgiving and Easter; for attendant and after hrs call 989-578-2174. Rwv 15-33 CLOSED when snow covered except ski-equipped acft, Rwv 15-33 marked with 3' vellow cones, Deer activity on and invof arpt. Radio Control acft ops near W side of

Rwv 15-33, Rwv 09 REIL OTS indef, ACTIVATE MIRL Rwv 09-27: PAPI and REIL Rwy 09 and Rwy 27-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8

(R) SAGINAW APP/DEP CON 126.45 (1100-0400Z±) CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE MBS.

SAGINAW (I) VORW/DMF 112 9 MBS Chan 76 N43°31 90' W84°04.64' 330° 31.5 NM to fld. 663/3W.

WIGGINS NDB (MHW) 209 GDW N43°58.20' W84°28.50'

NOTAM FILE LAN GLOWACKI (See ST JOHNS)

GOGEBIC-IRON CO (See IRONWOOD)

GRADOLPH FLD

(See PETERSBURG)

GRAND HAVEN MEML AIRPARK (3GM) 2 SE

FUEL 100LL 604 R S4 NOTAM FILE LAN RWY 09-27: H3752X75 (ASPH) S-8 MIRL

RWY 09: REIL. PAPI(P2L)-GA 3.0° TCH 32'. Tree. RWY 27: REIL, PAPI(P2L)—GA 4.0° TCH 54', Trees.

RWY 18-36: H2058X60 (ASPH) S-8 RWY 18: Road. RWY 36: Tree.

AIRPORT REMARKS: Attended 1300Z±-dusk, Radio control acft flying

REIL and PAPI Rwys 09 and 27-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.7 (R) MUSKEGON APP/DEP CON 119.8 (1100-0400Z±)

(R) CHICAGO CENTER APP/DEP CON 128.5 (0400-1100Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE MKG.

MUSKEGON (L) VORTACW 115.2 MKG Chan 99 N43°10.16'

W86°02.36' 222° 10.7 NM to fld. 659/1W. **2AWIH** 

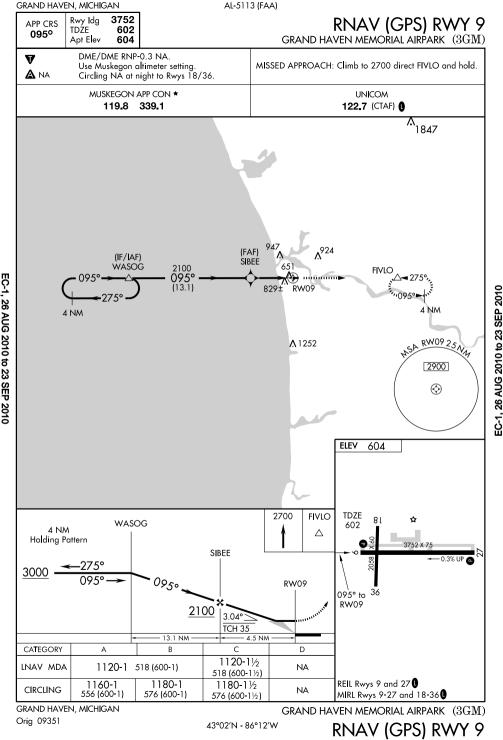
ΙΔΡ Residential County airaround Ball Field añ 4700 X 75 Waste Treatment Ponds

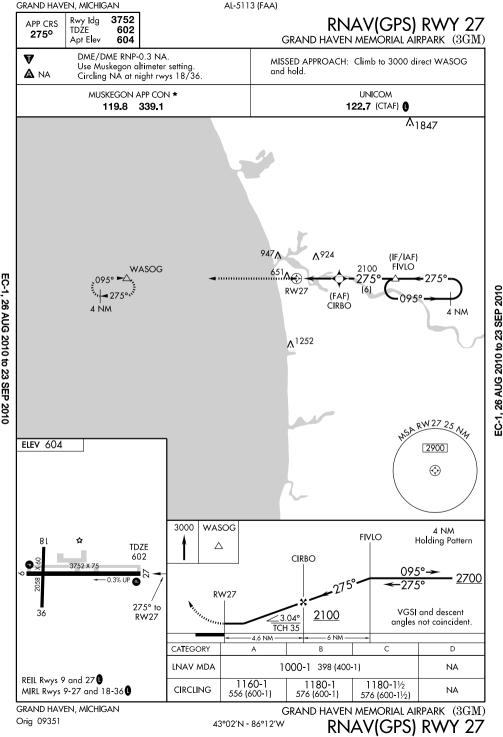
DETROIT

I-281 31C

UTC-5(-4DT) N43°02.04′ W86°11.89′ CHICAGO

L-281 IAP area NW side of Rwv 18, ACTIVATE MIRL Rwvs 09-27 and 18-36:





P (ARNG) 2 N UTC-5(-4DT) N42°46.45′ W84°43.99′

NOTAM FILE LAN

# **GRAND LEDGE** ABRAMS MUNI

S4 RWY 09-27: H3200X75 (ASPH) MIRL 0.3% up E

C517-483-5671/2/3.

RWY 09: PAPI(P4L)-GA 3.0° TCH 25'. Tree. RWY 27: REIL, PAPI(P2L)-GA 4.0° TCH 25', Tree.

(4DØ)

RWY 18-36: 2580X120 (TURF) RWY 18: Thid dsplcd 400'. Trees.

RWY 36: Thid dspicd 397'. Road.

MILITARY SERVICE: FUEL 100LL, J4. PPR, ctc OPS DSN 623-0671/2/3,

FUEL 100LL TPA-See Remarks

AIRPORT REMARKS: Attended 1300Z‡-dusk. Rwy 18-36 CLOSED to

fixed wing acft Nov-Apr, soft in spring. Intensive National Guard

helicopter training on and invof arpt. No fixed wing and limited

rotary parking on national guard ramp. Rwy 18-36 and dsplcd thld

marked with 3' yellow cones. Rwy 36 dsplcd thld marked with 3 vellow cones. Exit Rwy 18-36 only at twys. TPA-For helicopters

1700 (858) fixed wing TPA-1900(1058). ACTIVATE MIRL Rwy MILITARY REMARKS: CAUTION Avoid over flight of Grand Ledge blo 2000'.

Night training conducted using night vision devices. COMMUNICATIONS: CTAF/UNICOM 122.7 (R) LANSING APP/DEP CON 118.65 226.4 ARNG OPS 41 85 122 7 241 0

**GRAND MARAIS** (Y98) 3 SE 838 NOTAM FILE GRB

RWY 14: Trees.

RWY 05: Trees.

(H) VOR/DME 115.95 GRR

DME unmonitored.

RCO 122 25 (LANSING RADIO)

DME unusable byd 30 NM blo 3000'.

09-27: REIL Rwv 27-CTAF.

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

UTC-5(-4DT) N46°37.25′ W85°55.01′

RWY 14-32: 2800X100 (TURF) RWY 32: Trees.

RWY 05-23: 2600X150 (TURF)

RWY 23: Trees.

COMMUNICATIONS: CTAF/UNICOM 122.7

**GRAND RAPIDS** N42°47.20′ W85°29.82′. NOTAM FILE GRR.

Chan 106(Y)

353° 5.8 NM to Gerald R Ford Intl. 803/4W.

H-5E. 10F. L-28I

CHICAGO

AIRPORT REMARKS: Unattended, Arpt CLOSED Oct 15-May 15, Rwys not plowed winters, Rwy 05-23 marked with 3' yellow cones. Rwy 14-32 marked with 3' yellow cones. Rwy 05-23 and Rwy 14-32 surface rough.

LANSING (L) VORTACW 110.8 LAN Chan 45 N42°43.04′ W84°41.85′ 340° 3.8 NM to fld. 887/5W.

Rwy 18-36: 2580 X 120

**GRFFN RAY** 

National Guard Area

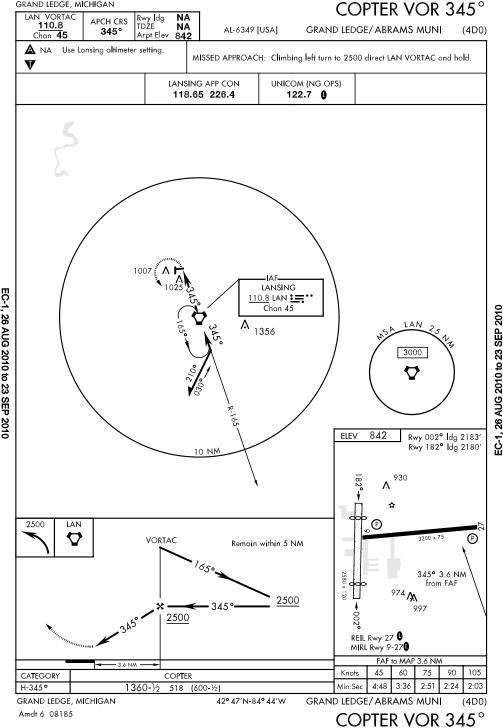
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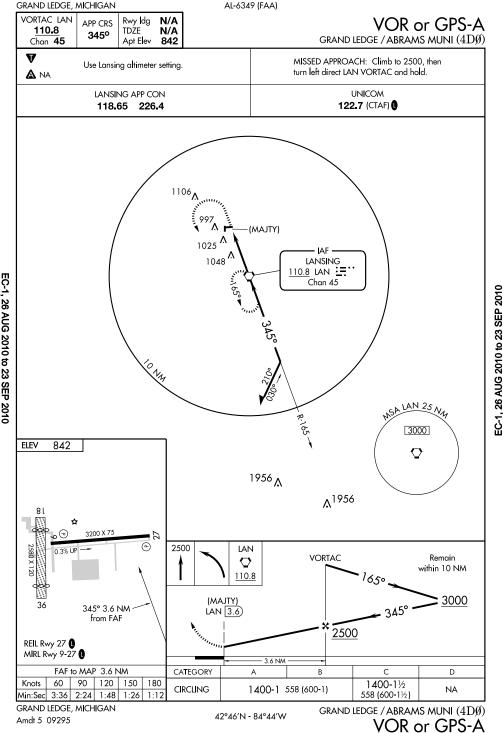
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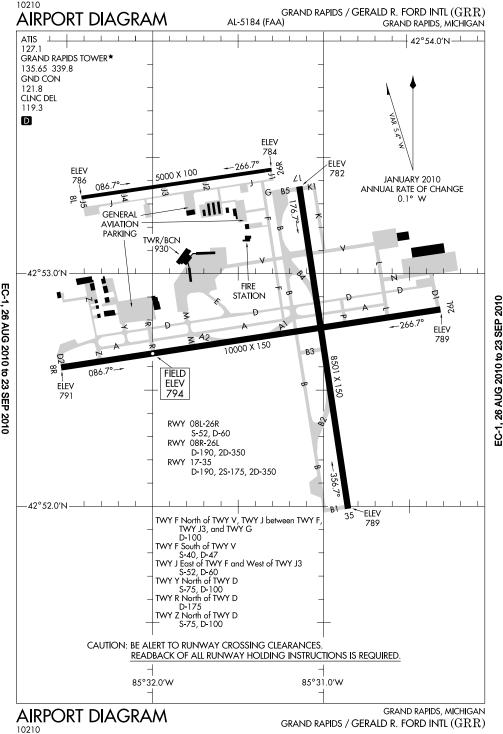
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L-28J

DETROIT IAP. DIAP







# **GRAND RAPIDS** GERALD R FORD INTL

HIRL

RWY 08R-26L: H10000X150 (CONC-GRVD) D-190, 2D-350 HIRL RWY 08R: MALSR. RWY 17-35: H8501X150 (CONC-GRVD) D-190, 2S-175, 2D-350

(GRR) 6 SE

FUEL 100LL, JET A

D clsd to acft over 100,000 lbs; Twy R north of Twy D clsd to acft over 175000 lbs. Twy R north of Twy D, Twy Y north of Twy D, Twy Z north of Twy D and Twy N are non-movement areas. Rwy 08R and 26L touchdown and

RWY 17: REIL. VASI(V4L)-GA 3.0° TCH 38'. RWY 35: MALSR, PAPI(P4R)-GA 3.0' TCH 74'.

RWY 26L: MALSR. PAPI(P4L)-GA 3.0' TCH 73'.

RWY 08L-26R: H5000X100 (CONC-GRVD) S-52, D-60

S4

RWY 08L: REIL. VASI(V4L)-GA 3.0° TCH 33'.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 26R: REIL, VASI(V4L)-GA 3.0° TCH 33'.

OX 1. 3 LRA

RWY 08L: TORA-5000 TODA-5000 ASDA-5000 LDA-5000 RWY 08R: TORA-10000 TODA-10000 ASDA-10000 LDA-10000

MIRL

UTC-5(-4DT) N42°52.85' W85°31.37'

CHICAGO

IAP AD

Class I. ARFF Index C NOTAM FILE GRR H-5E. 10F. L-28I

Rwy 08L-26R: 5000 X 100

RWY 17: TORA-8501 TODA-8501 ASDA-8501

LDA-8501

RWY 26L: TORA-10000 TODA-10000 ASDA-10000 LDA-10000 RWY 26R: TORA-5000 TODA-5000 ASDA-5000 LDA-5000

RWY 35: TORA-8501 TODA-8501 ASDA-8501 LDA-8501

UNICOM 122.95

AIRPORT REMARKS: Attended continuously, PPR for acft with 171'

Rwy 08L; Rwy 17 and Rwy 26R; PAPI Rwy 26L and Rwy 35; REIL Rwy 08L; Rwy 17 and Rwy 26R and MALSR Rwy 08R; 26L and 35—CTAF. Twy F north of Twy V, Twy J btn Twy F and Twy J3 and Twy G clsd to acft over 100000 lbs: Twv F, south of Twv V and remaining sections of Twv J clsd to acft over 47000 lbs: Twv Y 400' north of Twv

rollout runway visual range avbl. Rwy 35 touchdown runway visual range avbl. Snow removal personnel will

wingspan or larger. Birds on and invof arpt. Noise abatement procedures: Rwy 08R depart on rwy heading until reaching the highway E of arpt: Rwy 26L on apch to arpt turn final at highway E of arpt. Rwy 08L-26R for apch Cat C acft. wingspan must be less than 79'. Apch Cat D and E acft prohibited. Pushback advisories on the terminal ramp are not provided by ATC. When twr closed ACTIVATE HIRL Rwy 08R-26L; Rwy 17-35; MIRL Rwys 08L-26R; VASI

monitor CTAF when twr is clsd. LRA: Mon-Fri 2 hours PPR for customs call 616-942-5245, pager 616-249-5380. Call prior to 2100Z‡ on preceding Friday for after hours service. WEATHER DATA SOURCES: ASOS (616) 956-3224. WSP. COMMUNICATIONS: CTAF 135.65 ATIS 127.1 616-336-4755

GRAND RAPIDS RCO 122.25 (LANSING RADIO) R GRAND RAPIDS APP/DEP CON 124.6 (North) 128.4 (South) (1030-0500Z‡) R CHICAGO CENTER APP/DEP CON 128.4 (0500-1030Z‡)

GRAND RAPIDS TOWER 135.65 (1030-0500Z±) GND CON 121.8 CLNC DEL 119.3

AIRSPACE: CLASS C svc 1030-0500Z± ctc APP CON other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE GRR.

GRAND RAPIDS (H) VOR/DME 115.95 Chan 106(Y) N42°47.20′ W85°29.82′ GRR 803/4W. DME unmonitored.

KNOBS NDB (LOM) 263 GR N42°53.74′ W85°22.71′ 266° 6.4 NM to fld. ILS 109.7 I-GRR Rwv 26L. LOM KNOBS NDB. Unmonitored when twr clsd. Class IB.

ILS 108.3 I-CYZ Rwy 08R. Unmonitored when twr clsd. ILS 111.9 I-DVS Rwy 35. ILS unmonitored when twr clsd.

GRANT

353° 5.8 NM to fld.

CHICAGO

2 NE UTC-5(-4DT) N43°20.50' W85°46.50' (Ø1C) 815 NOTAM FILE LAN

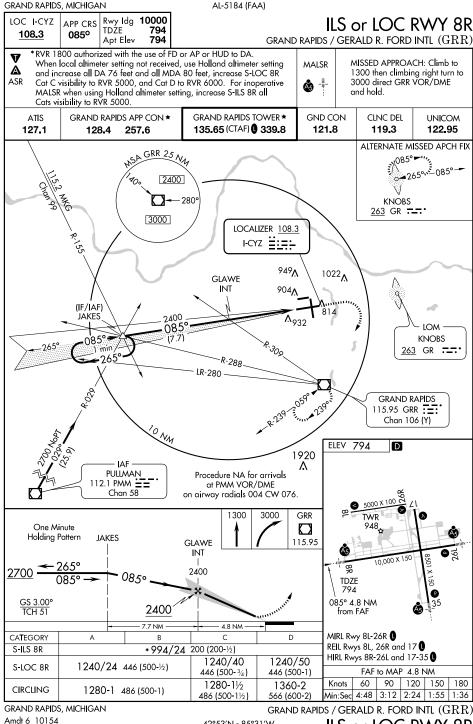
RWY 09: Thid dsplcd 387'. Trees. RWY 27: Thid dsplcd 580'. Trees.

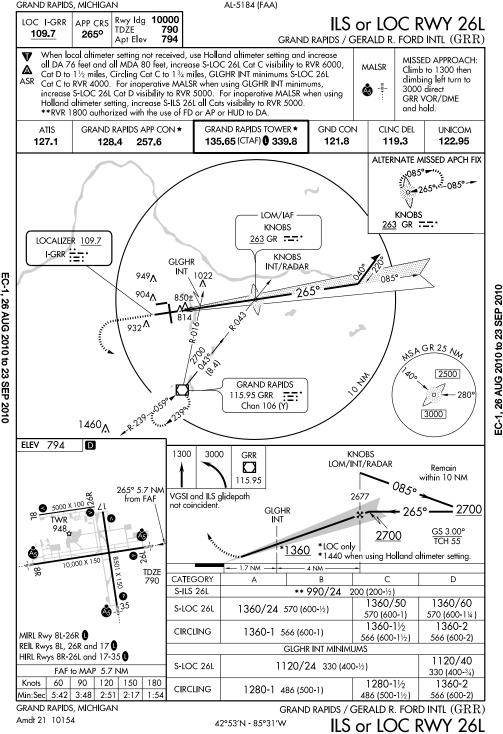
AIRPORT REMARKS: Attended irregularly. 100LL fuel avbl for emergencies only. Rwy 09-27 and dsplcd thids marked with 3' yellow cones. Arpt Igts opr dusk-0500Z‡. ACTIVATE LIRL Rwy 09-27-CTAF.

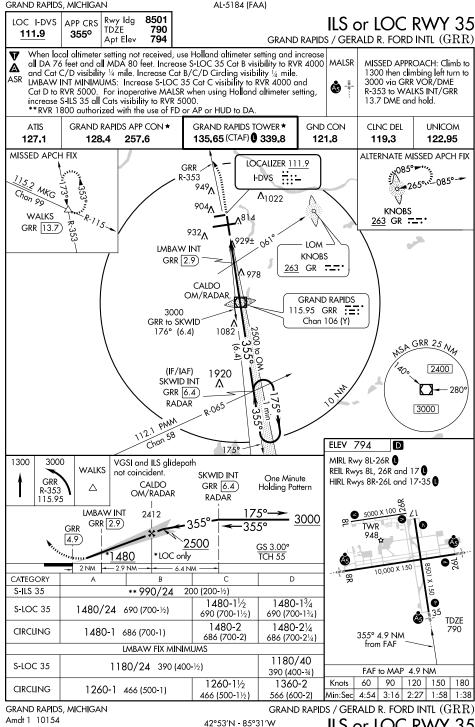
COMMUNICATIONS: CTAF/UNICOM 122.8 GRATIOT COMMUNITY (See ALMA)

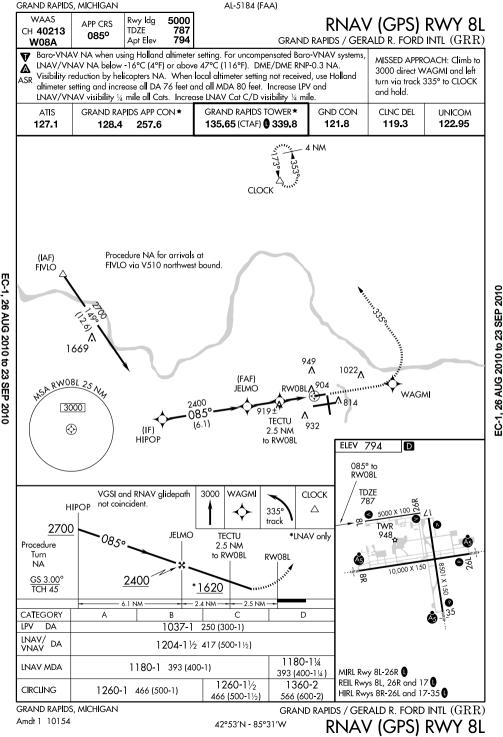
RWY 09-27: 2517X120 (TURF) LIRL

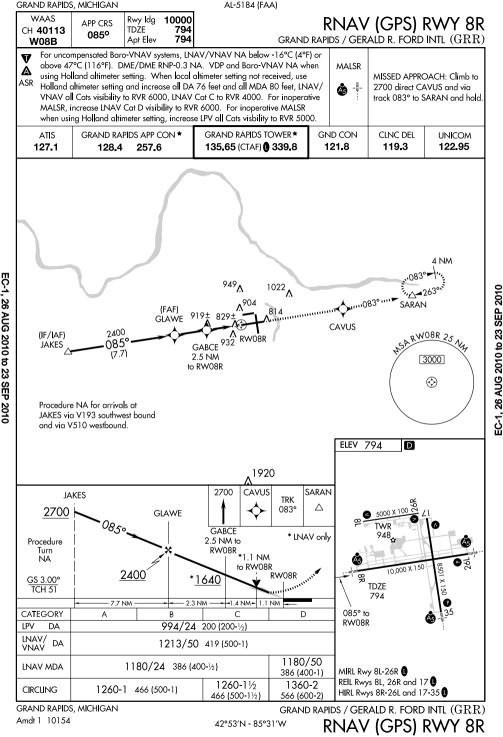
ASR (1030-0500Z±)











APP CRS TDŻE 789 CH 93912 175° Apt Elev 794 W17A

RNAV (GPS) RWY 17 GRAND RAPIDS / GERALD R. FORD INTL (GRR)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. Visibility reduction by Helicopters NA. When local altimeter ASR setting not received, use Holland altimeter setting and increase all DA 76 feet and all MDA 80

MISSED APPROACH: Climb to 3000 direct LMBAW and via track 175° to GRR VOR/DME and hold, continue climb-in-hold to 3000.

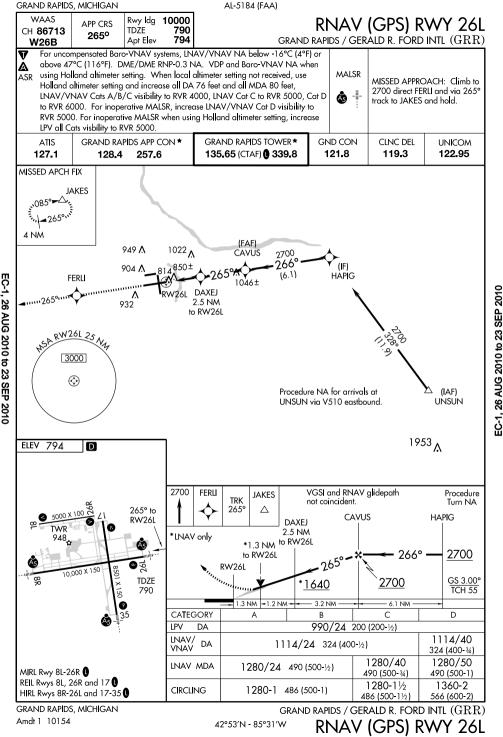
EC-1, 26 AUG 2010 to 23 SEP 2010

feet. Increase LPV visibility ½ mile all Cats and LNAV/VNAV visibility ¼ mile all Cats. Increase LNAV Cat D visibility 1/4 mile. Baro-VNAV and VDP NA when using Holland altimeter setting. GRAND RAPIDS APP CON★ GRAND RAPIDS TOWER★ GND CON CLNC DEL UNICOM ATIS 135.65 (CTAF) ( 339.8 121.8 122.95 127.1 128.4 257.6 119.3 (IAF) CLOCK Procedure NA for arrivals at CLOCK via V193 northeast bound and V285 northbound. (IF) WĖBÓM 2400 (FAF) HABKO Λ 1669 949 Λ<sub>1022</sub> 861± 904/ RW17 ^814 9321 15A RW 17 25 Ny **LMBAW** 3000 **(** GRAND RAPIDS 794 **ELEV** GRR D 175° to RW17 4 NM 3000 **LMBAW** GRR VGSI and RNAV alidepath WEBOM 175° not coincident. **TDZE** track 789 2600 TWR 948 HABKO Procedure \*1.2 NM Turn to RW17 NA 10,000 X 150 GS 3.00° 2400 TCH 50 \*LNAV only 6.1 NM 3.7 NM CATEGORY Α В D LPV DA 1108-1 319 (400-1) LNAV/ 1259-13/4 470 (500-13/4) DA VNAV LNAV MDA 1200-1 411 (500-1) 1200-11/4 411 (500-11/4) MIRL Rwy 8L-26R 🕕 REIL Rwys 8L, 26R and 17 1 1260-11/2 1360-2CIRCLING 1260-1 466 (500-1) HIRL Rwys 8R-26L and 17-35 **()** 466 (500-11/2) 566 (600-2)

GRAND RAPIDS, MICHIGAN

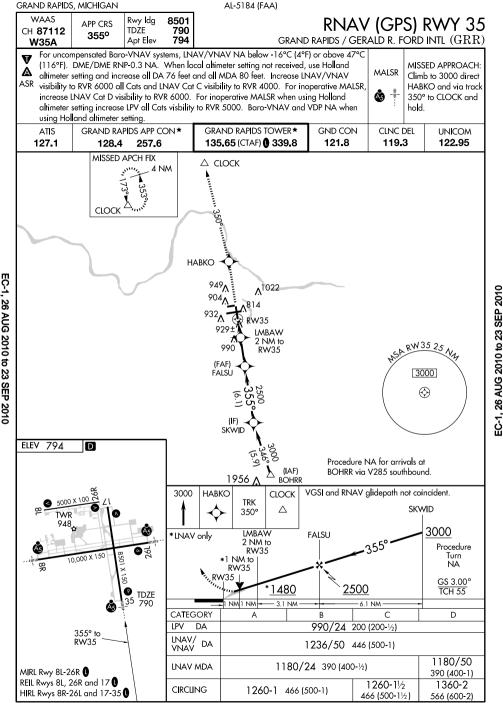
GRAND RAPIDS / GERALD R. FORD INTL (GRR)

42°53'N - 85°31'W

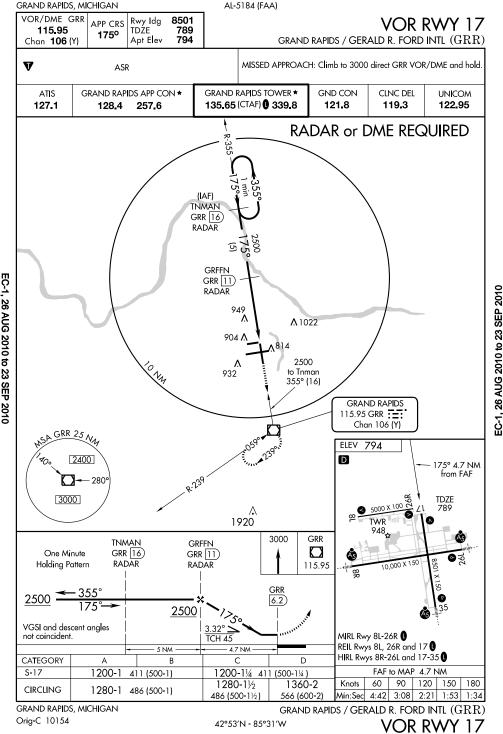


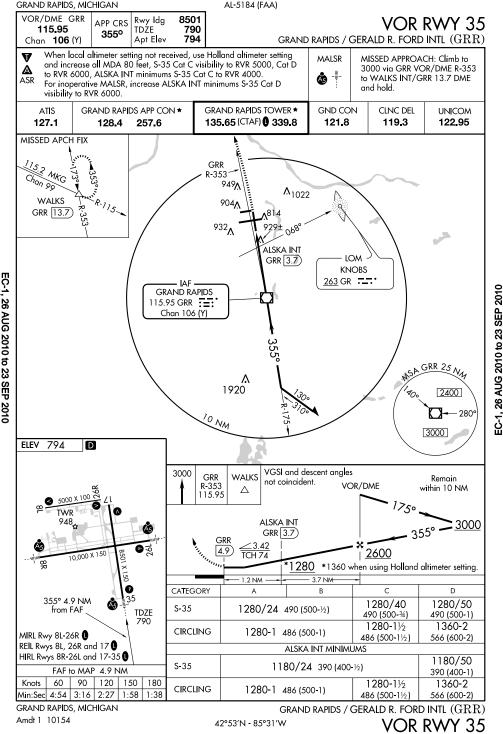
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, 26 AUG 2010 to 23 SEP 2010



GRAND RAPIDS, MICHIGAN Amdt 1 10154 GRAND RAPIDS / GERALD R. FORD INTL (GRR)





GRAYLING AAF (GOV)(KGOV) CIV/MIL 1 NW UTC-5(-4DT) N44°40.82' W84°43.73' 1158 B TPA—See Remarks NOTAM FILE GOV RWY 05-23: H5000X150 (CONC) D-12 PCN 10 R/C/W/T MIRL RWY 05: REIL. PAPI(P4L)-GA 4.0° TCH 41'. Trees. €3 RWY 23: REIL, PAPI(P4L)—GA 3.0° TCH 30', Trees. 000 RWY 14-32: H5000X150 (ASPH) S-35, D-45, 2D-80 PCN 65 F/B/W/T 03 03

RWY 14: REIL, PAPI(P4L)—GA 3.0° TCH 30', Tree.

RWY 32: REIL, PAPI(P4L)—GA 3.5° TCH 34', Thid dspicd 300'. Trees.

AIRPORT REMARKS: Attended dawn-dusk, Wildlife on and invof arpt.

Extensive military helicopter tfc Jun thru Aug. ACTIVATE MIRL Rwy 14-32 and Rwy 05-23, REIL Rwy 05, Rwy 23, Rwy 14 and Rwy 32

and PAPI Rwy 05, Rwy 23, Rwy 14 and Rwy 32—CTAF, Rwy 05-23. Twv A, Twv D and Twv E CLOSED winter months, no snow removal.

MILITARY REMARKS: TFC PAT-Rotary wing 2000(842), fixed wing 2200(1042), MISC Ctc Base OPS DSN 623-3301. C989-344-4301 or C517-648-5339. WEATHER DATA SOURCES: AWOS-3 119.075 (989) 348-3127.

COMMUNICATIONS: CTAF/UNICOM 122.8 MINNEAPOLIS CENTER APP/DEP CON 132 9 338 3

**TOWER** 126.2 241.0 (by NOTAM) **GND CON 121.9** 

RADIO AIDS TO NAVIGATION: NOTAM FILE TVC.

TRAVERSE CITY (H) VORTACW 114.6 TVC Chan 93 N44°40.07' W85°33.00' 091° 35.2 NM to fld. 912/2W. HIWAS.

(T) VNRW 109 8 CGG N44°40 90′ W84°43 74′ at fld NOTAM FILE GOV Unmonitored NDB (MHW) 359 GYG N44°45.00′ W84°49.70′ 140° 6 NM to fld. NOTAM FILE GOV.

## **GREEN LAKE** (See INTERLOCHEN)

GREENVILLE MUNI (6D6) 3 S UTC-5(-4DT)

855 B S4 FUEL 100LL NOTAM FILE LAN RWY 10-28: H4199X75 (ASPH) S-23 MIRL

RWY 10: PAPI(P4L)-GA 3.5° TCH 27'. Trees.

RWY 28: REIL. PAPI(P4L)-GA 3.0° TCH 32'. Trees.

RWY 18-36: 1730X200 (TURF)

RWY 18: Trees RWY 36: Thid dsplcd 378'. Trees.

AIRPORT REMARKS: Attended Apr-Oct 1300-2200Z‡, Nov-Mar

1300-0000Z‡, Deer on and invof arpt, Snow removal Rwv 10-28

only. Rwy 18-36 no plowing, verify conditions prior to landing, Rwy 18-36 and dsplcd thid marked with 3' yellow cones. ACTIVATE

MIRL Rwv 10-28-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8

(R) GRAND RAPIDS APP/DEP CON 124.6 (1030-0500Z±)

(R) CHICAGO CENTER/APP DEP CON 124.6 (0500-1030Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE GRR.

GRAND RAPIDS (H) VOR/DME 115.95

GRR Chan

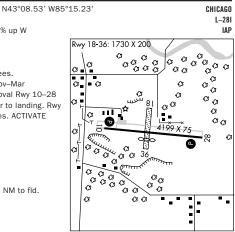
106(Y) N42°47.20′ W85°29.82′ 031° 23.9 NM to fld. 803/4W. DME unmonitored.

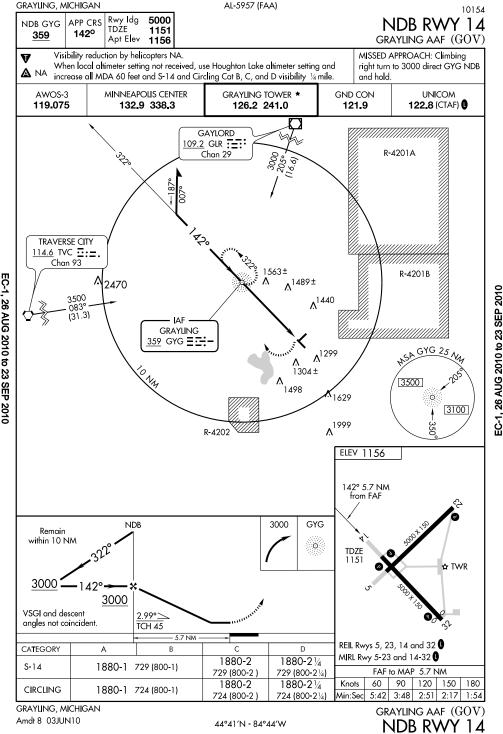
€3 B Ø €3 G G C €3 63 Ø হ্রে হে ദേദ €3 €3 Residential

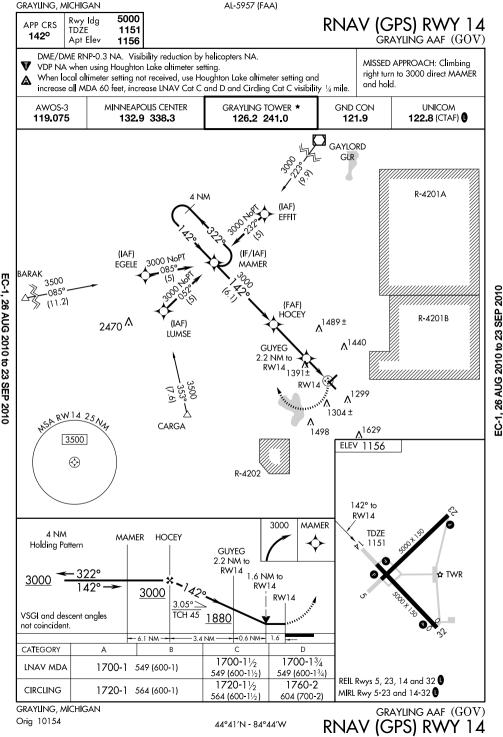
LAKE HIIRON

H-2K, L-31C

IAP







GRAYLING, MICHIGAN AL-5957 (FAA) 10210 Rwy Idg 5000 VOR RWY 14 VOR CGG APP CRS TDŹF 1151 127° 109.8 Apt Elev GRAYLING AAF (GOV) 1156 Visibility reduction by helicopters NA. V MISSED APPROACH: Climbing When local altimeter setting not received, use Houghton Lake altimeter setting and right turn to 3500 in CGG VOR A NA increase all MDA 60 feet, increase S-14 and Circling Cat B, C, and D and GORDN Fix holding pattern. minimums S-14 Cat C and D and Circling Cat C visibility 1/4 mile. AWOS-3 MINNEAPOLIS CENTER GRAYLING TOWER ★ GND CON UNICOM 119.075 132.9 338.3 126.2 241.0 121.9 122.8 (CTAF) 0 ELBOT <sup>Z</sup> R-4201A 10 NM GRAYLING 359 GYG **Ξ** ... 2470 EC-1, 26 AUG 2010 to 23 SEP 2010 R-4201B ۸ ^1489±  $\Lambda^{1440}$ 3369 **GORDN** INT IAF CGG 25 Ny 3000 GRAYLING 1304±∧ 0839 1299 (10.7) 109.8 CGG =:-**^** 1498 CARGA ∧<sup>1629</sup> 3100 3500 1999 R-4202 ELEV 1156 3500 CGG VOR Remain 6000 within 10 NM 127° to CGG VOR **GORDN** 2800 INT 1270 \*1940 when using Houghton 1880\* Lake altimeter setting. TDZE 1151 -- 3.1 NM -- |-☆ TWR С CATEGORY Α D 1880-2 1880-21/4 S-14 1880-1 729 (800-1) 729 (800-2) 729 (800-21/4) 1880-2 1880-21/4 CIRCLING 1880-1 724 (800-1) 724 (800-2) 724 (800-21/4) GORDN FIX MINIMUMS 1720-11/2 1720-13/4 S-14 1720-1 569 (600-1) 569 (600-11/2) 569 (600-134) REIL Rwys 5, 23, 14 and 32 1720-11/2 1760-2 1720-1 564 (600-1) CIRCLING MIRL Rwy 5-23 and 14-32 1 564 (600-11/2) 604 (700-2)

GRAYLING, MICHIGAN Amdt 2 29JUL10

44°41′N - 84°44′W

GRAYLING AAF (GOV)(KGOV) CIV/MIL 1 NW UTC-5(-4DT) N44°40.82' W84°43.73' 1158 B TPA—See Remarks NOTAM FILE GOV RWY 05-23: H5000X150 (CONC) D-12 PCN 10 R/C/W/T MIRL RWY 05: REIL. PAPI(P4L)-GA 4.0° TCH 41'. Trees. €3 RWY 23: REIL, PAPI(P4L)—GA 3.0° TCH 30', Trees. 000 RWY 14-32: H5000X150 (ASPH) S-35, D-45, 2D-80 PCN 65 F/B/W/T 03 03

RWY 14: REIL, PAPI(P4L)—GA 3.0° TCH 30', Tree.

RWY 32: REIL, PAPI(P4L)—GA 3.5° TCH 34', Thid dspicd 300'. Trees.

AIRPORT REMARKS: Attended dawn-dusk, Wildlife on and invof arpt.

Extensive military helicopter tfc Jun thru Aug. ACTIVATE MIRL Rwy 14-32 and Rwy 05-23, REIL Rwy 05, Rwy 23, Rwy 14 and Rwy 32

and PAPI Rwy 05, Rwy 23, Rwy 14 and Rwy 32—CTAF, Rwy 05-23. Twv A, Twv D and Twv E CLOSED winter months, no snow removal.

MILITARY REMARKS: TFC PAT-Rotary wing 2000(842), fixed wing 2200(1042), MISC Ctc Base OPS DSN 623-3301. C989-344-4301 or C517-648-5339. WEATHER DATA SOURCES: AWOS-3 119.075 (989) 348-3127.

COMMUNICATIONS: CTAF/UNICOM 122.8 MINNEAPOLIS CENTER APP/DEP CON 132 9 338 3

**TOWER** 126.2 241.0 (by NOTAM) **GND CON 121.9** 

RADIO AIDS TO NAVIGATION: NOTAM FILE TVC.

TRAVERSE CITY (H) VORTACW 114.6 TVC Chan 93 N44°40.07' W85°33.00' 091° 35.2 NM to fld. 912/2W. HIWAS.

(T) VNRW 109 8 CGG N44°40 90′ W84°43 74′ at fld NOTAM FILE GOV Unmonitored NDB (MHW) 359 GYG N44°45.00′ W84°49.70′ 140° 6 NM to fld. NOTAM FILE GOV.

## **GREEN LAKE** (See INTERLOCHEN)

GREENVILLE MUNI (6D6) 3 S UTC-5(-4DT)

855 B S4 FUEL 100LL NOTAM FILE LAN RWY 10-28: H4199X75 (ASPH) S-23 MIRL

RWY 10: PAPI(P4L)-GA 3.5° TCH 27'. Trees.

RWY 28: REIL. PAPI(P4L)-GA 3.0° TCH 32'. Trees.

RWY 18-36: 1730X200 (TURF)

RWY 18: Trees RWY 36: Thid dsplcd 378'. Trees.

AIRPORT REMARKS: Attended Apr-Oct 1300-2200Z‡, Nov-Mar

1300-0000Z‡, Deer on and invof arpt, Snow removal Rwv 10-28

only. Rwy 18-36 no plowing, verify conditions prior to landing, Rwy 18-36 and dsplcd thid marked with 3' yellow cones. ACTIVATE

MIRL Rwv 10-28-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8

(R) GRAND RAPIDS APP/DEP CON 124.6 (1030-0500Z±)

(R) CHICAGO CENTER/APP DEP CON 124.6 (0500-1030Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE GRR.

GRAND RAPIDS (H) VOR/DME 115.95

GRR Chan

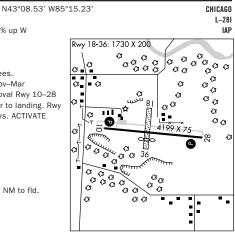
106(Y) N42°47.20′ W85°29.82′ 031° 23.9 NM to fld. 803/4W. DME unmonitored.

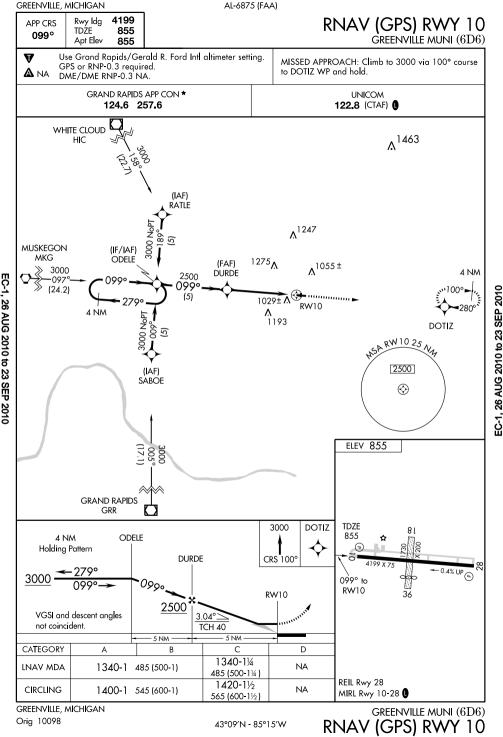
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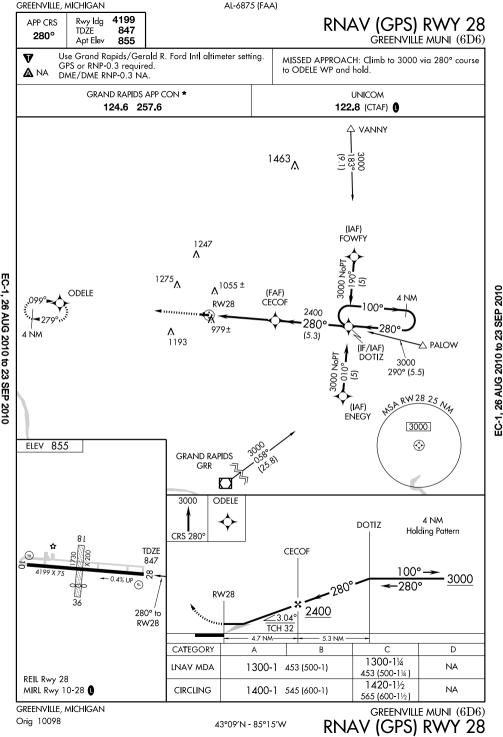
LAKE HIIRON

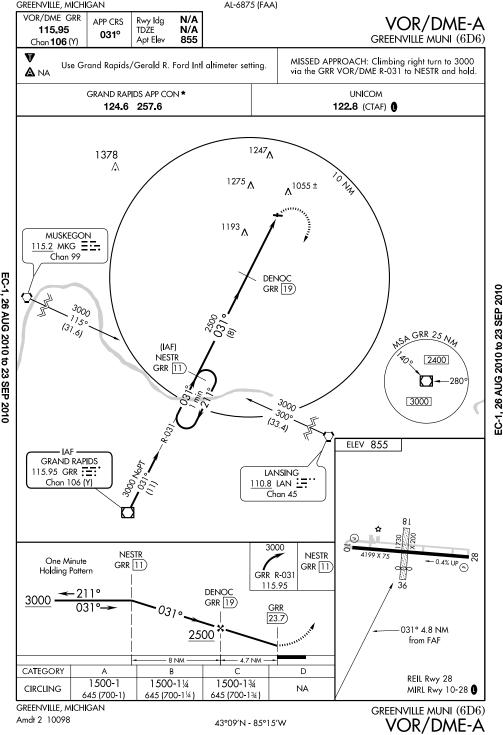
H-2K, L-31C

IAP









MICHIGAN 161

### HANCOCK

HOUGHTON CO MEM (CMX) 4 NF LITC-5(-4DT) N47°10 11' W88°29 34' R S4 FIFE 100LL IET A Class LARFE Index A NOTAM FILE CMX

RWY 13: REIL, PAPI(P4L)—GA 3.0° TCH 44', Trees.

RWY 31: MALSR PAPI(P4L)—GA 3 0° TCH 45'

RWY 07-25: H5196X100 (ASPH-PEC) S-35 D-50 MIRI

0.3% up NE RWY 07: REIL PAPI(P2L)—GA 3 0° TCH 30' Trees

RWY 25: REIL PAPI(P4L)—GA 3 0° TCH 41' Trees

RWY 13-31: H6501X150 (ASPH-GRVD)

RUNWAY DECLARED DISTANCE INFORMATION

RWY N7-TORA-5196 TODA-5196 ASDA-5196 LDA-5196

RWY 13-TORA-6501 TODA-6501 ASDA-6501 LDA-6501

RWY 25.

TORA-5196 TODA-5196 ASDA-5196 IDA-5196

TORA-6501 TODA-6501 ASDA-6501 LDA-6501 RWY 31-

AIRPORT REMARKS: Attended 0900-0500Z±, PAEW on arpt monitor CTAF. Frequent snow removal ops in progress various times

Nov-Anr monitor CTAE Airframe and power plant renairs avhl Anr. 15 thru Nov 15. Arpt CLOSED to unscheduled air carrier opns with

more than 30 passenger seats except PPR call arpt manager 906-482-3970. Deer and gulls on and invof arpt. General aviation acft parking permitted in front of air carrier terminal

building. Contact Unicom for permission to park in front of terminal, General aviation acft parking on aprons lctd N and S of terminal building, Arpt has dual PCL, ACTIVATE HIRL Rwy 13-31, MIRL Rwy 07-25, PAPI Rwy 13, Rwy 31, Rwy 07, and Rwy 25, REIL Rwy 13, Rwy 07, and Rwy 25. MALSR Rwy 31 and Twy B—CTAF. Airfield guidance signs snow covered in winter. Ldg fee waived with fuel

nurchase for multi-engine acft only WEATHER DATA SOURCES: ASOS 125.675 (906) 482-4248. HIWAS 112.8 CMX.

COMMUNICATIONS: CTAF/UNICOM 122 7

HANCOCK RCO 123.65 122.525 (GREEN BAY RADIO) (R) MINNFAPOLIS CENTER APP/DEP CON 127.2

AIRSPACE: CLASS E svc continuous.

RADIO AIDS TO NAVIGATION: NOTAM FILE CMX.

(L) VORW/DME 112.8 CMX Chan 75 N47°10.22′ W88°29.12′ DME unusable 315°-035° byd 30 NM blo 3500'.

GALEY NDB (MHW/LOM) 275 CM N47°06.94′ W88°24.07′ 313° 4.8 NM to fld. Unmonitored.

LOM GALEY NDB, LOC BC unusable byd 13° left I-CMX Chan 40 Rwv 31. Class IT.

UTC-5(-4DT)

and right of course, LOC BC and BC DME unusable byd 10 NM blo 2600'.

#### HANIFY FID (See MUNISING)

HARROR SPRINGS

# 3 E FUEL 100LL, JET A NOTAM FILE MGN

(MGN)

RWY 10-28: H4157X75 (ASPH) S-22, D-30 MIRL (NSTD) RWY 10: PAPI(P4R)—GA 3.5° TCH 25. Thid dspicd 445'. Trees.

RWY 28: (NSTD) PAPI(P4L)—GA 4.0° TCH 35. Thid dspicd 445'. Trees. AIRPORT REMARKS: Attended 1300-dusk, Parachute Jumping, Birds and

surrounding community, all acft departing to the W turn S over the water as soon as practical. ACTIVATE NSTD MIRL Rwy 10-28-CTAF, Landing fee waived with minimum fuel purchase.

deer on and invof arpt. Rwy 28 +46' antenna 186' from dsplcd thid 234' right. Noise abatement procedures; no turbojet/turbofan acft departures from 0400 to 1200Z±, no low flight over

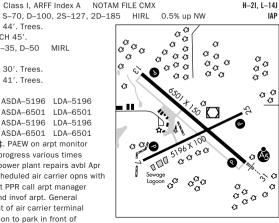
WEATHER DATA SOURCES: AWOS-3 119.925 (231) 347-5231. COMMUNICATIONS: CTAF/UNICOM 122.8 (R) MINNEAPOLIS CENTER APP/DEP CON 134.6

RADIO AIDS TO NAVIGATION: NOTAM FILE PLN.

PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84' W84°39.85' 227° 16.2 NM to fld. 840/6W.

HIWAS.

COMM/NAV/WEATHER REMARKS: AWOS-3 Wind unreliable btn 260°-280°.



GREEN RAY

N45°25.53' W84°54.80' LAKE HURON L-31B IAP Ø **(3** 3 43 €3 €3 m 0 63

C3 C3

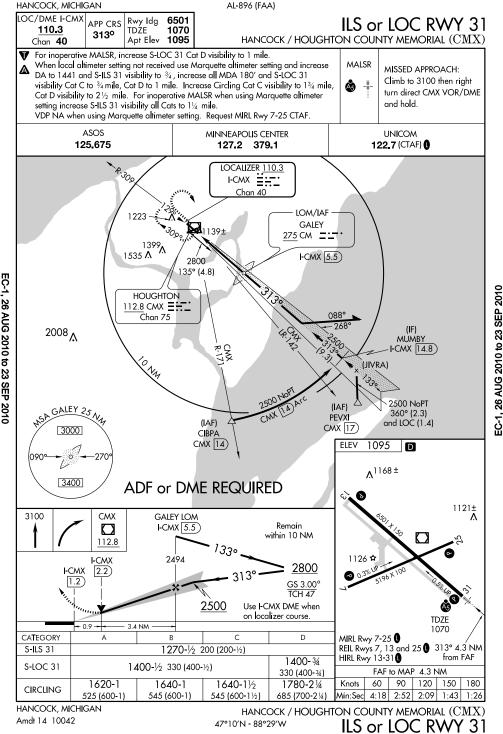
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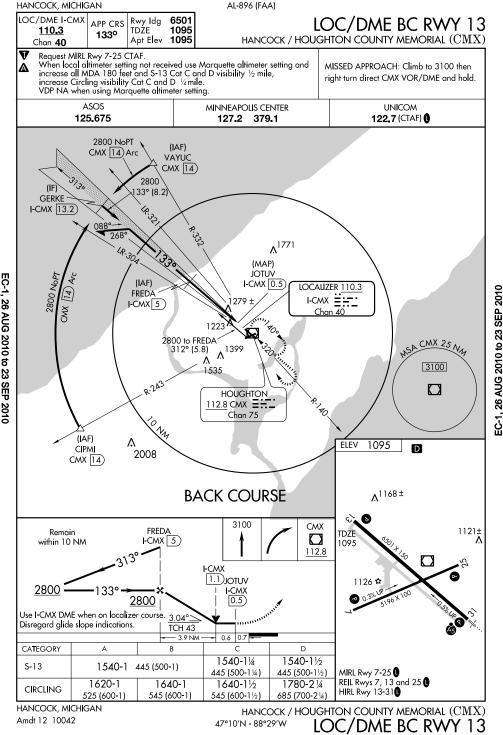
C3

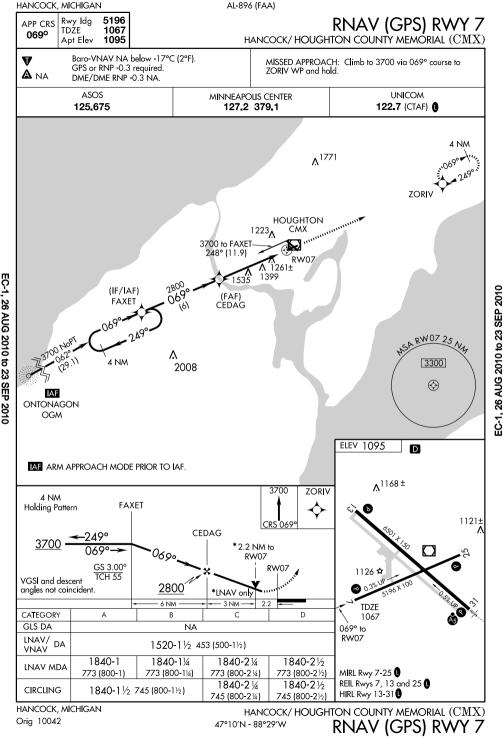
C3 €3

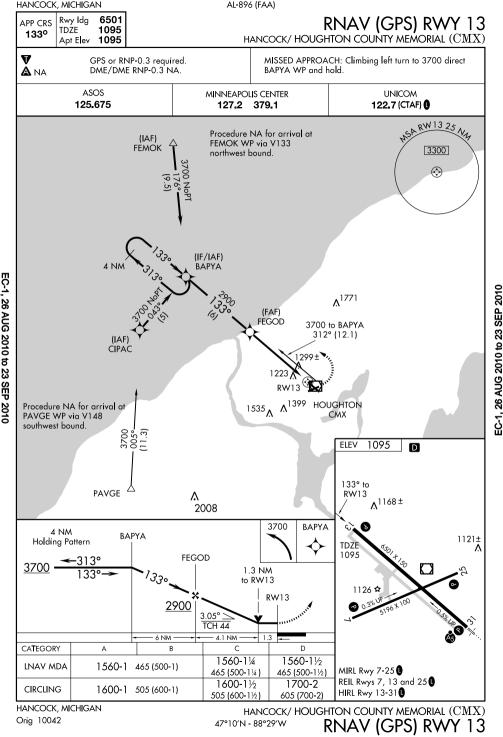
at fld. 1072/2W. HIWAS.

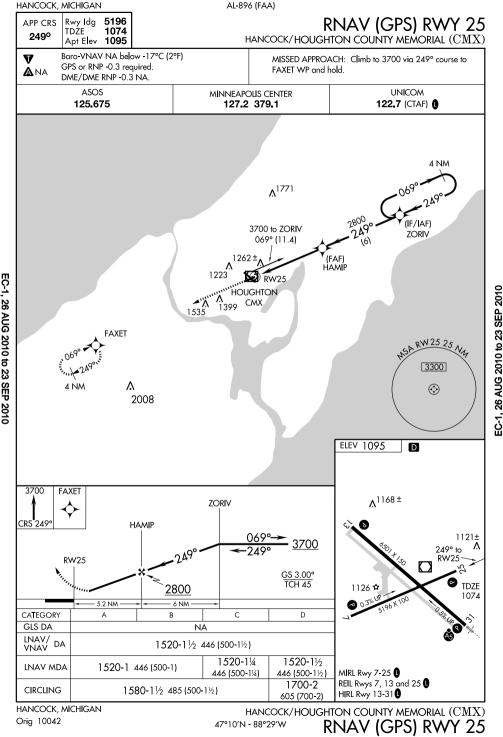
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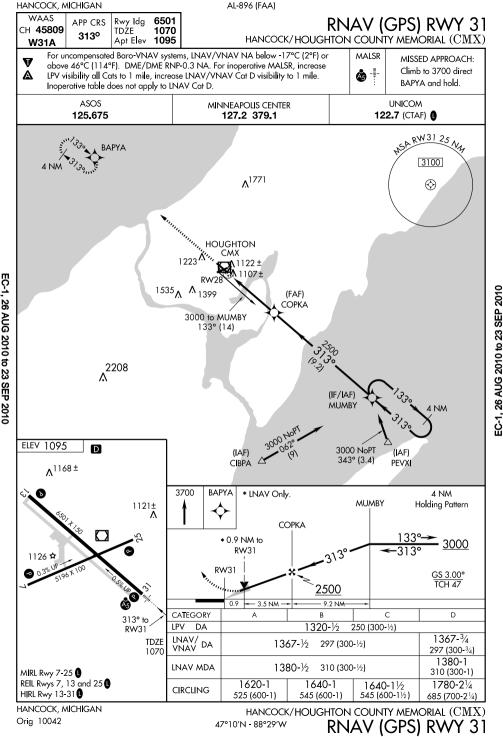


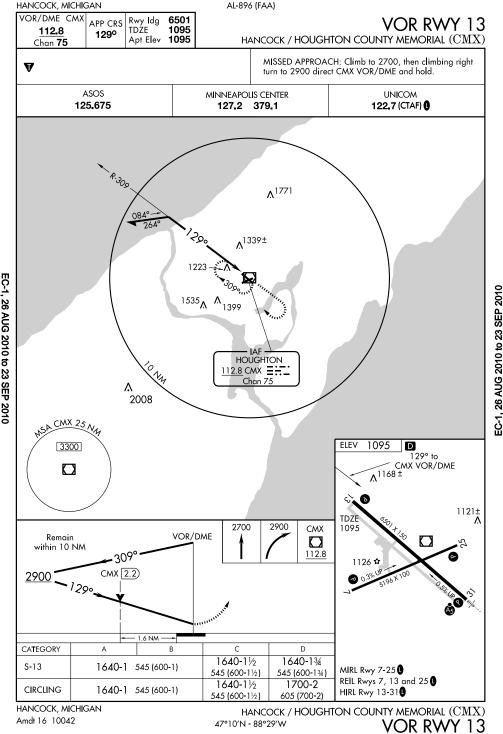


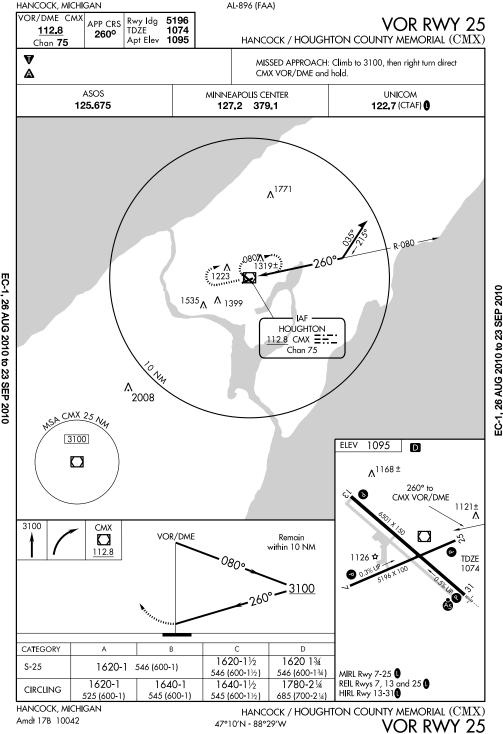


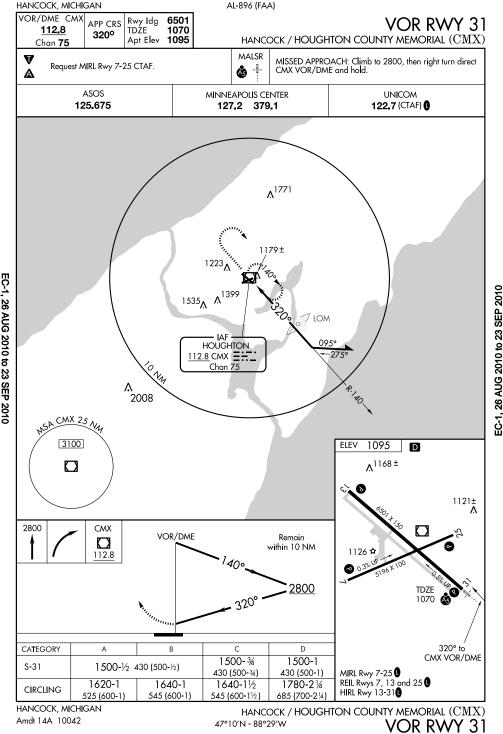












MICHIGAN 161

### HANCOCK

HOUGHTON CO MEM (CMX) 4 NF LITC-5(-4DT) N47°10 11' W88°29 34' R S4 FIFE 100LL IET A Class LARFE Index A NOTAM FILE CMX

RWY 13: REIL, PAPI(P4L)—GA 3.0° TCH 44', Trees.

RWY 31: MALSR PAPI(P4L)—GA 3 0° TCH 45'

RWY 07-25: H5196X100 (ASPH-PEC) S-35 D-50 MIRI

0.3% up NE RWY 07: REIL PAPI(P2L)—GA 3 0° TCH 30' Trees

RWY 25: REIL PAPI(P4L)—GA 3 0° TCH 41' Trees

RWY 13-31: H6501X150 (ASPH-GRVD)

RUNWAY DECLARED DISTANCE INFORMATION

RWY N7-TORA-5196 TODA-5196 ASDA-5196 LDA-5196

RWY 13-TORA-6501 TODA-6501 ASDA-6501 LDA-6501

RWY 25.

TORA-5196 TODA-5196 ASDA-5196 IDA-5196

TORA-6501 TODA-6501 ASDA-6501 LDA-6501 RWY 31-

AIRPORT REMARKS: Attended 0900-0500Z±, PAEW on arpt monitor CTAF. Frequent snow removal ops in progress various times

Nov-Anr monitor CTAE Airframe and power plant renairs avhl Anr. 15 thru Nov 15. Arpt CLOSED to unscheduled air carrier opns with

more than 30 passenger seats except PPR call arpt manager 906-482-3970. Deer and gulls on and invof arpt. General aviation acft parking permitted in front of air carrier terminal

building. Contact Unicom for permission to park in front of terminal, General aviation acft parking on aprons lctd N and S of terminal building, Arpt has dual PCL, ACTIVATE HIRL Rwy 13-31, MIRL Rwy 07-25, PAPI Rwy 13, Rwy 31, Rwy 07, and Rwy 25, REIL Rwy 13, Rwy 07, and Rwy 25. MALSR Rwy 31 and Twy B—CTAF. Airfield guidance signs snow covered in winter. Ldg fee waived with fuel

nurchase for multi-engine acft only WEATHER DATA SOURCES: ASOS 125.675 (906) 482-4248. HIWAS 112.8 CMX.

COMMUNICATIONS: CTAF/UNICOM 122 7

HANCOCK RCO 123.65 122.525 (GREEN BAY RADIO) (R) MINNFAPOLIS CENTER APP/DEP CON 127.2

AIRSPACE: CLASS E svc continuous.

RADIO AIDS TO NAVIGATION: NOTAM FILE CMX.

(L) VORW/DME 112.8 CMX Chan 75 N47°10.22′ W88°29.12′ DME unusable 315°-035° byd 30 NM blo 3500'.

GALEY NDB (MHW/LOM) 275 CM N47°06.94′ W88°24.07′ 313° 4.8 NM to fld. Unmonitored.

LOM GALEY NDB, LOC BC unusable byd 13° left I-CMX Chan 40 Rwv 31. Class IT.

UTC-5(-4DT)

and right of course, LOC BC and BC DME unusable byd 10 NM blo 2600'.

#### HANIFY FID (See MUNISING)

HARROR SPRINGS

# 3 E FUEL 100LL, JET A NOTAM FILE MGN

(MGN)

RWY 10-28: H4157X75 (ASPH) S-22, D-30 MIRL (NSTD) RWY 10: PAPI(P4R)—GA 3.5° TCH 25. Thid dspicd 445'. Trees.

RWY 28: (NSTD) PAPI(P4L)—GA 4.0° TCH 35. Thid dspicd 445'. Trees. AIRPORT REMARKS: Attended 1300-dusk, Parachute Jumping, Birds and

surrounding community, all acft departing to the W turn S over the water as soon as practical. ACTIVATE NSTD MIRL Rwy 10-28-CTAF, Landing fee waived with minimum fuel purchase.

deer on and invof arpt. Rwy 28 +46' antenna 186' from dsplcd thid 234' right. Noise abatement procedures; no turbojet/turbofan acft departures from 0400 to 1200Z±, no low flight over

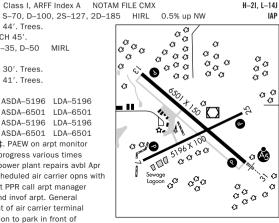
WEATHER DATA SOURCES: AWOS-3 119.925 (231) 347-5231. COMMUNICATIONS: CTAF/UNICOM 122.8 (R) MINNEAPOLIS CENTER APP/DEP CON 134.6

RADIO AIDS TO NAVIGATION: NOTAM FILE PLN.

PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84' W84°39.85' 227° 16.2 NM to fld. 840/6W.

HIWAS.

COMM/NAV/WEATHER REMARKS: AWOS-3 Wind unreliable btn 260°-280°.



GREEN RAY

N45°25.53' W84°54.80' LAKE HURON L-31B IAP Ø **(3** 3 43 €3 €3 m 0 63

C3 C3

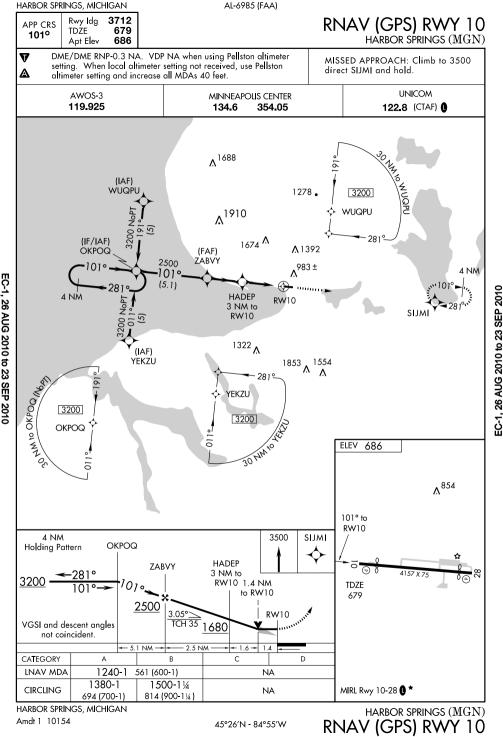
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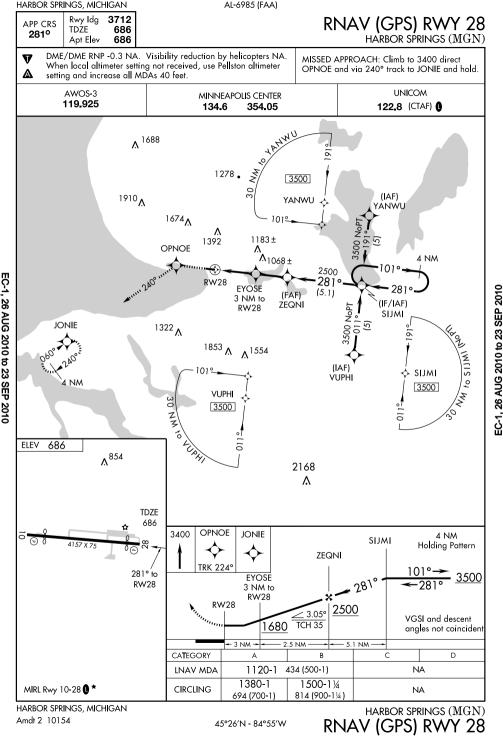
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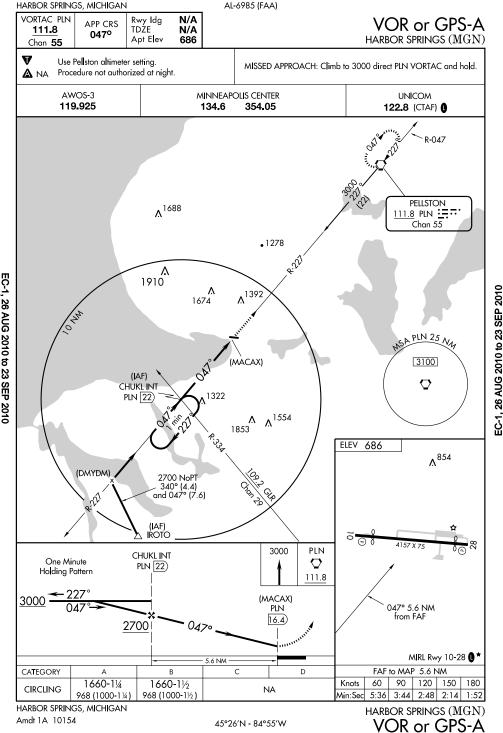
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at fld. 1072/2W. HIWAS.

0







Rwy 18-36: 1967 X 200

CHICAGO

1-281

IAP

**PASTINGS** (9D9) 3 W UTC-5(-4DT) N42°39.81' W85°20.78'

FUEL 100LL TPA-1601(800) RWY 12-30: H3900X75 (ASPH) S-20 MIRL RWY 12: REIL, PAPI(P4R)—GA 4.0°, TCH 25', Trees.

RWY 30: REIL, PAPI(P4L)—GA 4.0° TCH 25', Tree.

RWY 09-27: 2400X170 (TURF)

RWY 09: Thid dspicd 185', Trees.

RWY 27: Thid dsplcd 393'. Trees.

RWY 18-36: 1962X200 (TURF) RWY 18: Trees RWY 36: Tree

AIRPORT REMARKS: Attended irregularly, Birds on and invof arpt. ACTIVATE MIRL Rwy 12-30; REILS Rwy 12 and Rwy 30 and PAPI Rwv 12 and Rwv 30-CTAF, Rwv 09-27 and Rwv 18-36 marked

with vellow cones.

GRAND RAPIDS (H) VOR/DME 115.95 GRR Chan 803/4W. DME unmonitored.

## COMMUNICATIONS: CTAF/UNICOM 123.075. C C (R) GRAND RAPIDS APP/DEP CON 128.4 (1030-0500Z±) (R) CHICAGO CENTER APP/DEP CON 128.5 (0500-1030Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE GRR. G G 106(Y) N42°47.20′ W 85°29.82′ 142° 10 NM to fld. HAT FIFI D (See NUNICA)

NOTAM FILE LAN

801 B

#### HESSEL

ALBERT J. LINDBERG (5Y1) 2 N UTC-5(-4DT) N46°02.15' W84°25.19' 760 B NOTAM FILE GRB

RWY 09-27: H3700X60 (ASPH) MIRL

RWY 09: PAPI(P2L)—GA 4.0° TCH 40', Thid dspicd 200', Trees. RWY 27: PAPI(P2L)-3.5° TCH 25'. Trees. AIRPORT REMARKS: Attended Mon-Fri 1400-2200Z‡, Arpt manager

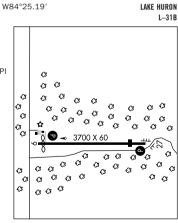
after hour 1-906-298-0566, ACTIVATE MIRL Rwv 09-27 and PAPI Rwys 09 and 27—CTAF. COMMUNICATIONS: CTAF 122 9

RADIO AIDS TO NAVIGATION: NOTAM FILE PLN.

PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84' W84°39.85' 029° 26.4 NM to fld. 840/6W.

HIWAS.

Rwy 9-27: 2400 X 170 3 || G ! Φø. ß G G



# HIGHLAND

1017 NOTAM FILE LAN

PONDEROSA HELIPORT (13D) 2W UTC-5(4DT) N42°37.75′ W83°40.99′ DETROIT COPTER

HELIPAD H1: H18X18(CONC) HELIPORT REMARKS: Unattended, Helipad H1 perimeter lgts, ACTIVATE H1 perimeter lgts and VASI—123.025. COMMUNICATIONS: CTAF 122 9

Orig-C 10042

VOR RW

164 **MICHIGAN** 

UTC-5(-4DT)

MIRL

HILLSDALE MUNI

R S4

RWY 10: Tree.

HILLMAN

850

(Y95)

RWY 04: Trees.

NOTAM FILE LAN

RWY 04-22: H3400X60 (ASPH)

RWY 18-36: 2800X150 (TURF) RWY 18: Thid dspicd 1400', Trees.

AIRPORT REMARKS: Attended irregularly. Rwy 18-36 surface rough and moderately rolling, not mowed. Snow removal second priority.

UTC-5(-4DT)

NOTAM FILE JYM

RWY 22: Thid dspled 760'. Trees.

N45°04.98' W83°56.04'

RWY 36: Tree.

confirm arpt condition before arrival. Rwy 18-36 marked with 3' vellow cones. ACTIVATE MIRL Rwv 04-22-CTAF. COMMUNICATIONS: CTAF 122 9 RADIO AIDS TO NAVIGATION: NOTAM FILE APN.

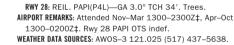
2 NW

ALPENA (L) VORTAC 108.8 APN Chan 25 N45°04.97' W83°33.42' 277° 16.0 NM to fld. 677/7W. HIWAS. €3

Rwy 18-36: 2800 X 150

LAKE HIIRON

I-31C



W84°45.91' 141° 11.7 NM to fld. 1040/05W.

3 E

FUEL 100LL, JET A

COMMUNICATIONS: CTAF/UNICOM 122.8 LITCHFIELD RCO 122.1R. 111.2T (LANSING RADIO) (R) TOLEDO APP/DEP CON 134.35 RADIO AIDS TO NAVIGATIONS: NOTAM FILE LAN. LITCHFIELD (L) VOR/DME 111.2 LFD Chan 49 N42°03.75'

(JYM)

RWY 10-28: H4000X75 (ASPH) S-16 MIRL

HIRAM CURE

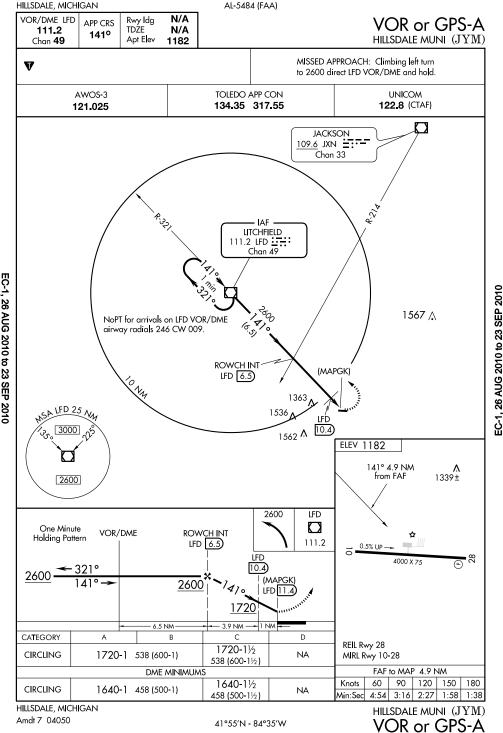
N41°55.28' W84°35.15' DETROIT L-28J IAP 4000 X 75

# (See SUNFIELD)

#### HOFFMAN'S BLACK MOUNTAIN AERODROME (See Chebovgan)

**HOLLAND** N42°47.79′ W86°09.45′. NOTAM FILE LAN. CHICAGO L-281

NDB (MHW) 233 HLM at Park Township. NDB unusable byd 5.5 NM



43

RWY 23: Thid dsplcd 1142'. Trees. RWY 12-30: 2245X90 (TURF) RWY 12: Thid dsplcd 1019'. Trees.

HOLLAND

RWY 30: Thid dspicd 820 '. Trees. AIRPORT REMARKS: Attended irregularly. Rwy 12-30 CLOSED Nov 1 thru Mar 31 and when snow covered. Departure procedure: Rwys 05

and 23 climb straight-out to 1200' MSL before turning. Rwy 12-30 and dsplcd thids marked with 3' yellow cones. ACTIVATE NSTD MIRL Rwv 05-23-CTAF, Rwv 05-23 NSTD MIRL: Igts 24'

S4

TULIP CITY

from rwy edge. COMMUNICATIONS: CTAF/UNICOM 122.8 PULLMAN RCO 122.1R 112.1T (LANSING RADIO)

RWY 05-23: H2999X50 (ASPH) MIRL (NSTD)

RWY 05: Thid dspicd 725'. Road.

RADIO AIDS TO NAVIGATION

HOLLAND NDB 233 HLM N42°47.79' W86°09.45' at fld.

RWY 08: REIL, PAPI (P4L)-GA 3.0° TCH 40', Rgt tfc. RWY 26: REIL. MALSR. PAPI (P4L)-GA 3.0° TCH 33'. Trees. AIRPORT REMARKS: Attended Mon-Fri 1100-0300Z‡, Sat and Sun

PARK TOWNSHIP (HLM) 3 NW UTC-5(-4DT) N42°47.76′ W86°09.72′

B FUEL 100LL TPA-1403(800) NOTAM FILE LAN

(BIV) 2 S UTC-5(-4DT) N42°44.57' W86°06.47'

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FUEL 100LL, JET A OX 1, 2 NOTAM FILE BIV RWY 08-26: H6002X100 (ASPH-GRVD) S-75, D-160, 2D-175



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COMMUNICATIONS: CTAF/UNICOM 123.05 PULLMAN RCO 122.1R, 112.1T (LANSING RADIO) R MUSKEGON APP/DEP CON 119.8 (1100-0400Z‡)

I-BIV

08; PAPI Rwy 08 and Rwy 26-CTAF. WEATHER DATA SOURCES: ASOS 119.025 (616) 394-0190

MUSKEGON CLNC DEL 123.95

W86°06.29'

ILS/DME 110.55

HOME ACRES SKY RANCH

HONEY ACRES

1165

HOUGHTON CO MEM

HOUGHTON LAKE HEIGHTS HOUGHTON LAKE STATE

COMMUNICATIONS: CTAF 122.9

(T) VORW/DME 111.6 HTL

HOUGHTON LAKE N44°21.53′ W84°39.94′

VOR /DMF unmonitored dusk to 13007†

(R) CHICAGO CENTER APP/DEP CON 128.5 (0400-1100Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

PULLMAN (H) VOR/DME 112.1 PMM Chan 58 N42°27.96' 360° 16.6 NM to fld. 640/00E.

Chan 42Y

(See LAKE CITY)

(See CLINTON)

(See HANCOCK)

(5Y2)

NOTAM FILE LAN RWY 16-34: 2750X104 (TURF) RWY 16: Thid dspicd 550'. Brush.

Chan 53

AIRPORT REMARKS: Attended irregularly. Snow removal irregular—confirm condition with arpt manager on

616-540-1324. Rwy 16 has 35' p-line on centerline 315' from thld. Rwy 16-24 marked with yellow cones.

NOTAM FILE HTI

1 W UTC-5(-4DT) N44°19.75′ W84°47.50′ RWY 34: Thid dsplcd 900'. Trees.

LAKE HURON

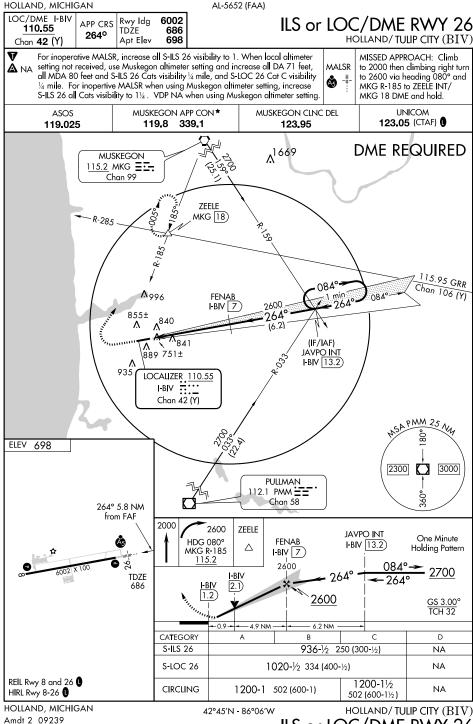
LAKE HURON

L-31C

at Roscommon Co-Blodgett Meml. 1145/5W. ASOS.

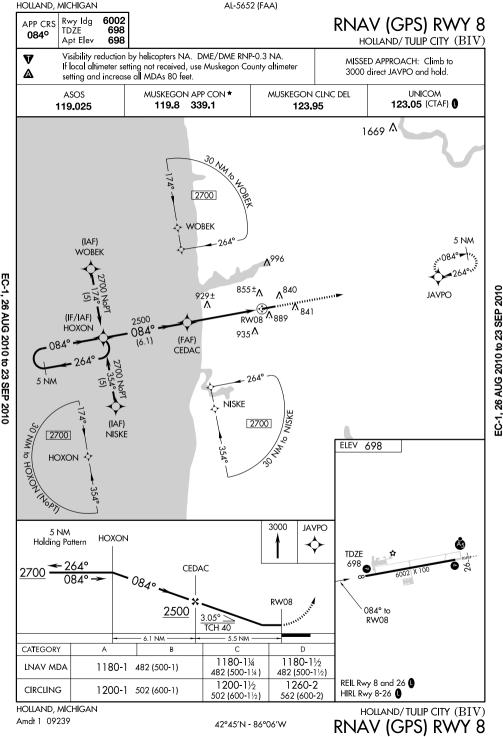
CHICAGO H-5E, 10F, L-28I

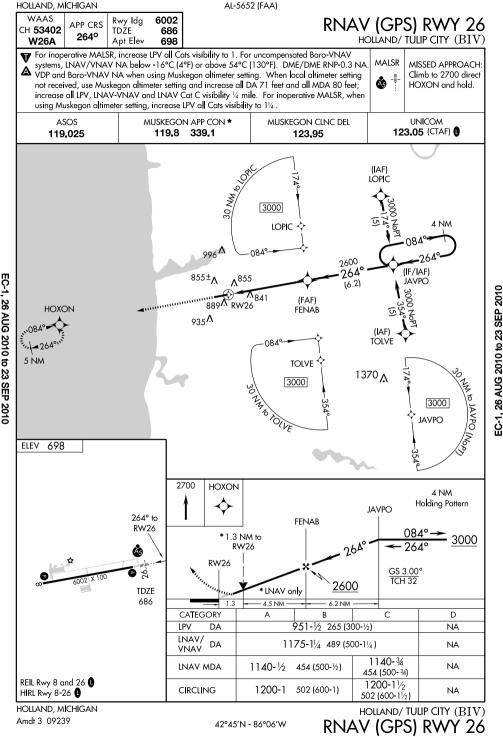
IAP



Amdt 2 09239

EC-1, 26 AUG 2010 to 23 SEP 2010





HOLLAND, MICHIGAN AL-5652 (FAA) VOR/DME PMM Rwy Idg N/A VOR-A APP CRS 112.1 N/A 688 TDŹE 360° Apt Elev HOLLAND/TULIP CITY (BIV) Chan **58** V MISSED APPROACH: Climb to 2300 then left turn via PMM R-360 to GRADS INT/PMM 12 DME and hold. A NA **ASOS** UNICOM MUSKEGON APP CON \* MUSKEGON CLNC DEL 123.05 (CTAF) ( 119.025 119.8 339.1 123.95 GRAND RAPIDS 115.95 GRR :=: **1**996 Chan 106 (Y) **∧**840 **∧**841 3000 259° (27.9) 889 <sub>935</sub> ^ R-259 EC-1, 26 AUG 2010 to 23 SEP 2010 <sub>1370</sub> (IAF) GRADS INT PMM [12] 2300 NoPT 360° (12) PMM 25 My စ္ထိ **ELEV** 688 2300 3000 IAF PULLMAN 360° 112.1 PMM === Chan 58 2300 GRADS INT **GRADS INT** PMM R-360 112.1 One Minute PMM 12) 6002 Holding Pattern 360° 4.6 NM from FAF <u>2300</u> **PMM** 16.6) 360° REIL Rwy 8 and 26 0 HIRL Rwy 8-26 ( 4.6 NM FAF to MAP 4.6 NM CATEGORY С Α D Knots 60 90 120 150 180 1200-11/2 1240-2 CIRCLING 1200-1 512 (600-1) Min:Sec 4:36 3:04 2:18 1:50 1:32 512 (600-1½) 552 (600-2) HOLLAND, MICHIGAN HOLLAND/TULIP CITY (BIV) Amdt 10C 09239 42°45'N - 86°06'W

MICHIGAN HOUGHTON LAKE ROSCOMMON CO-BLODGETT MEML (HTL) 5 NE UTC-5(-4DT) N44°21.59′ W84°40.27′

S-24

FUEL 100LL, JET A NOTAM FILE HTL

RWY 27: REIL. PAPI(P4R)-GA 3.5° TCH 32'. Trees. RWY 18-36: 2200X100 (TURF) RWY 18: Thid dsplcd 200'. Trees.

RWY 09: REIL, PAPI(P4L)-GA 4.0° TCH 32', Trees.

166

В S4

RWY 09-27: H4000X75 (ASPH)

RWY 36: Thid dspicd 200'. Trees. AIRPORT REMARKS: Attended 1300-2230Z‡. Arpt unattended

Christmas and Thanksgiving. Rwy 18-36 CLOSED when snow covered except for ski-equipped acft. Animals on and invof arpt.

Rwy 18-36 marked with 3' yellow cones. HIRL Rwy 09-27 preset on low ints dusk-0200Z‡; after 0200Z‡ ACTIVATE-CTAF. To increase ints and ACTIVATE REIL and PAPI Rwys 09 and 27-CTAF. 2203' MSL (883' AGL) twr 4.2 NM southwest of arpt.

WEATHER DATA SOURCES: ASOS 111.6 HTL (989) 366-4825. COMMUNICATIONS: CTAF/UNICOM 122.8 WEST BRANCH RCO 122.35 (LANSING RADIO) R MINNEAPOLIS CENTER APP/DEP CON 132.9 RADIO AIDS TO NAVIGATION: NOTAM FILE HTL. HOUGHTON LAKE (T) VORW/DME 111.6 HTL Chan 53 N44°21.53' W84°39.94' at fld. 1145/5W. ASOS.

HOUGHTON LAKE STATE (See HOUGHTON LAKE HEIGHTS) HOWARD NIXON MEML (See CHESANING)

**HOWELL** N42°38.03′ W83°59.26′. NOTAM FILE OZW.

NDB (MHW) 243 OZW at Livingston Co Spencer J. Hardy.

HOWELL AERONUT PARK BALLOON

(13M) 4 E UTC-5(-4DT)N42°36.25′ W83°51.52′

980 NOTAM FILE LAN

Not insp. RWY B1: 900X250 (TURF)

AIRPORT REMARKS: Attended irregularly. Contact owner at 517-552-1236 when using for first time. Acft in the vicinity using Rwy 09-27 adjacent to the S at McKenzie's Landing (1MI5). No snow removal. Support vehicles be alert when driving on grass in spring and fall when wet due to possible soft areas.

COMMUNICATIONS: CTAF 122.9 LIVINGSTON CO SPENCER J. HARDY (OZW) 3 NW UTC-5(-4DT)

S4 FUEL 100LL, JET A TPA-2001(1039) RWY 13-31: H5002X100 (CONC-GRVD) S-100 HIRL RWY 13: MALSR, PAPI(P4L)-GA 3.0° TCH 47', Trees. RWY 31: REIL. PAPI(P4L)-GA 3.0° TCH 30'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1200-0100Z‡, Sat-Sun

1300-0100Z‡. For fuel after hrs phone 517-548-4945. Deer and birds on and invof arpt. Rwy 13 PAPI OTS indef. HIRL Rwy 13-31 ops low ints dusk-0300Z‡; to increase ints and ACTIVATE after 0300Z‡-CTAF. ACTIVATE REIL Rwy 31 and MALSR Rwy 13-CTAF. PAPI Rwy 13 and Rwy 31 ops dawn-dusk, thereafter-CTAF. WEATHER DATA SOURCES: AWOS-3 118.875 (517) 546-4450.

COMMUNICATIONS: CTAF/UNICOM 123.0 R DETROIT APP/DEP CON 127.5 CLNC DEL 121.725

N42°37.77′ W83°58.93′ DETROIT NOTAM FILE OZW COPTER H-10G, L-28J IAP €3 **3** 

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LAKE HURON

L-31C

DETROIT

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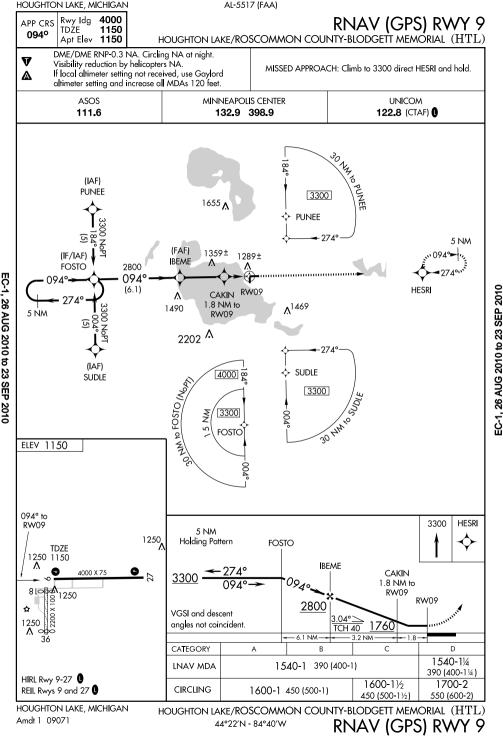
RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. SALEM (L) VORTAC 114.3 SVM Chan 90 W83°35.65' 311° 21.7 NM to fld. 950/3W. HOWELL NDB (MHW) 243 OZW N42°38.03′ W83°59.26′ NOTAM FILE OZW.

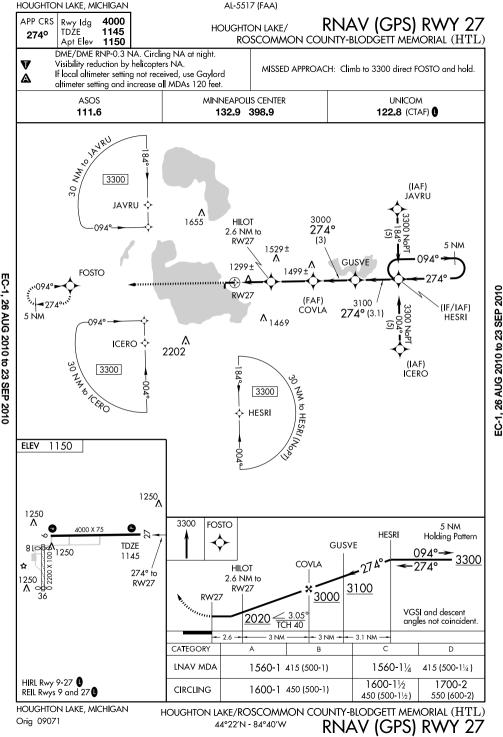
GCO 121.725 (DETROIT METRO CLNC and FLIGHT SERVICES)

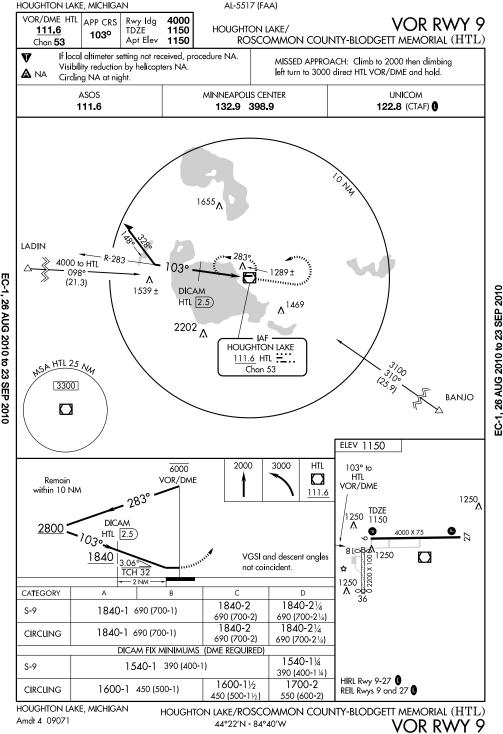
ILS/DME 108.55 I-OGO Chan 22Y Rwy 13. ILS/DME COMM/NAV/WEATHER REMARKS: For CLNC DEL key frequency 121.725 4

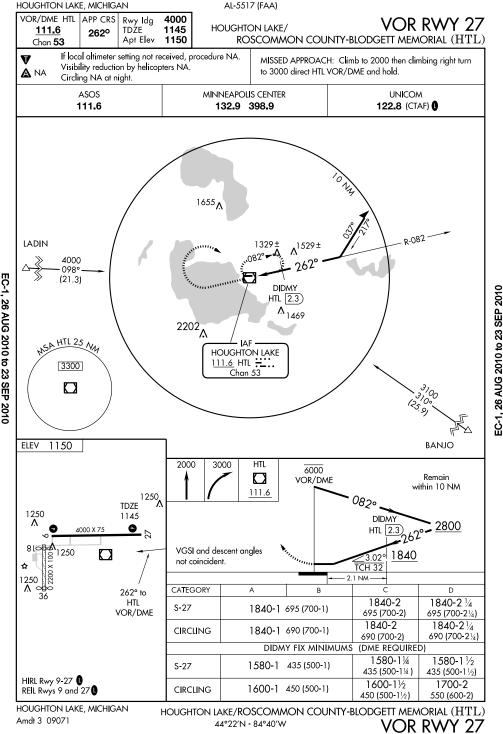
times. To contact FSS key frequency 121.725 6 times; one second on/one second off; monitor 121.725 while electronic equipment dials Detroit CLNC DEL/Lansing FSS.

at fld.









MICHIGAN HOUGHTON LAKE

ROSCOMMON CO-BLODGETT MEML (HTL) 5 NE UTC-5(-4DT) N44°21.59′ W84°40.27′

FUEL 100LL, JET A NOTAM FILE HTL

S-24

166

В S4

RWY 09-27: H4000X75 (ASPH)

RWY 09: REIL, PAPI(P4L)-GA 4.0° TCH 32', Trees. RWY 27: REIL. PAPI(P4R)-GA 3.5° TCH 32'. Trees. RWY 18-36: 2200X100 (TURF) RWY 18: Thid dsplcd 200'. Trees.

RWY 36: Thid dspicd 200'. Trees. AIRPORT REMARKS: Attended 1300-2230Z‡. Arpt unattended

Christmas and Thanksgiving. Rwy 18-36 CLOSED when snow covered except for ski-equipped acft. Animals on and invof arpt.

Rwy 18-36 marked with 3' yellow cones. HIRL Rwy 09-27 preset on low ints dusk-0200Z‡; after 0200Z‡ ACTIVATE-CTAF. To increase ints and ACTIVATE REIL and PAPI Rwys 09 and

27-CTAF. 2203' MSL (883' AGL) twr 4.2 NM southwest of arpt. WEATHER DATA SOURCES: ASOS 111.6 HTL (989) 366-4825. COMMUNICATIONS: CTAF/UNICOM 122.8 WEST BRANCH RCO 122.35 (LANSING RADIO) R MINNEAPOLIS CENTER APP/DEP CON 132.9

HOUGHTON LAKE (T) VORW/DME 111.6 HTL Chan 53 N44°21.53' W84°39.94' at fld. 1145/5W. ASOS.

RADIO AIDS TO NAVIGATION: NOTAM FILE HTL.

HOUGHTON LAKE STATE (See HOUGHTON LAKE HEIGHTS)

HOWARD NIXON MEML (See CHESANING)

**HOWELL** N42°38.03′ W83°59.26′. NOTAM FILE OZW. NDB (MHW) 243 OZW at Livingston Co Spencer J. Hardy.

HOWELL

AERONUT PARK BALLOON (13M) 4 E UTC-5(-4DT)N42°36.25′ W83°51.52′

980

NOTAM FILE LAN

Not insp. RWY B1: 900X250 (TURF)

AIRPORT REMARKS: Attended irregularly. Contact owner at 517-552-1236 when using for first time. Acft in the vicinity

using Rwy 09-27 adjacent to the S at McKenzie's Landing (1MI5). No snow removal. Support vehicles be alert

when driving on grass in spring and fall when wet due to possible soft areas.

COMMUNICATIONS: CTAF 122.9

LIVINGSTON CO SPENCER J. HARDY (OZW)

3 NW UTC-5(-4DT) S4 FUEL 100LL, JET A TPA-2001(1039) RWY 13-31: H5002X100 (CONC-GRVD) S-100 HIRL RWY 13: MALSR, PAPI(P4L)-GA 3.0° TCH 47', Trees.

RWY 31: REIL. PAPI(P4L)-GA 3.0° TCH 30'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1200-0100Z‡, Sat-Sun 1300-0100Z‡. For fuel after hrs phone 517-548-4945. Deer and birds on and invof arpt. Rwy 13 PAPI OTS indef. HIRL Rwy 13-31 ops low ints dusk-0300Z‡; to increase ints and ACTIVATE after 0300Z‡-CTAF. ACTIVATE REIL Rwy 31 and MALSR Rwy 13-CTAF.

PAPI Rwy 13 and Rwy 31 ops dawn-dusk, thereafter-CTAF. WEATHER DATA SOURCES: AWOS-3 118.875 (517) 546-4450. COMMUNICATIONS: CTAF/UNICOM 123.0 R DETROIT APP/DEP CON 127.5 CLNC DEL 121.725 GCO 121.725 (DETROIT METRO CLNC and FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

SALEM (L) VORTAC 114.3 SVM Chan 90 W83°35.65' 311° 21.7 NM to fld. 950/3W. HOWELL NDB (MHW) 243 OZW N42°38.03′ W83°59.26′ at fld. NOTAM FILE OZW.

ILS/DME 108.55 I-OGO Chan 22Y Rwy 13. ILS/DME

electronic equipment dials Detroit CLNC DEL/Lansing FSS.

COMM/NAV/WEATHER REMARKS: For CLNC DEL key frequency 121.725 4

N42°37.77′ W83°58.93′ DETROIT NOTAM FILE OZW COPTER H-10G, L-28J

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4000 X 75

€3 **3** times. To contact FSS key frequency 121.725 6 times; one second on/one second off; monitor 121.725 while

LAKE HURON

L-31C

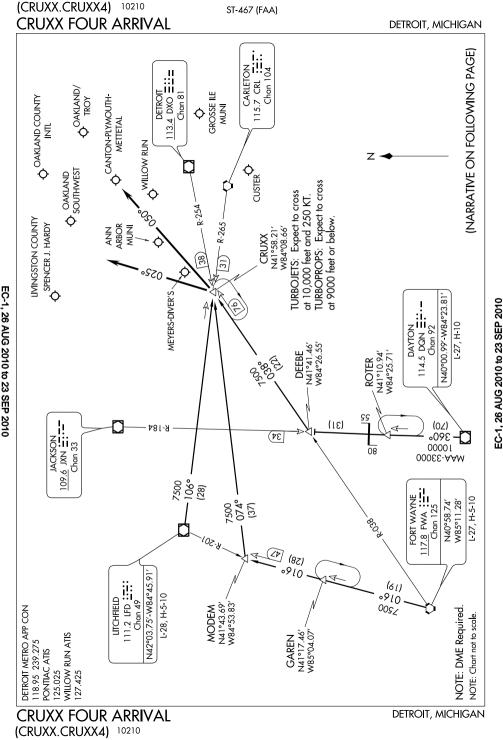
DETROIT

DETROIT

IAP

L-28J

IAP



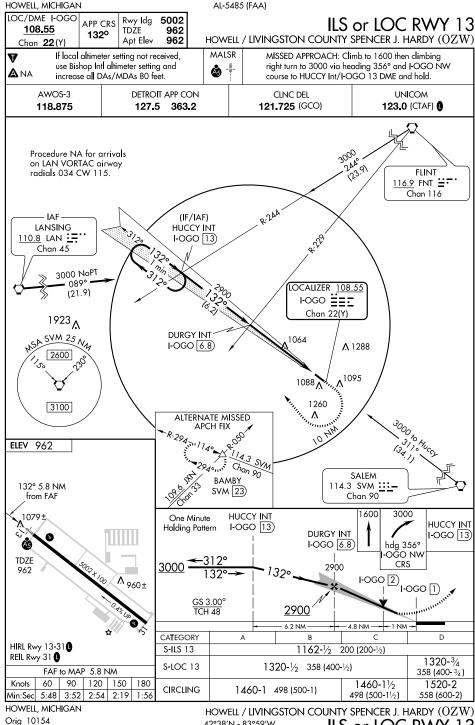
## ARRIVAL DESCRIPTION

DAYTON TRANSITION (DQN.CRUXX4): From over DQN VOR/DME via DQN R-360 and JXN R-184 to DEEBE INT and FWA R-038 to CRUXX INT. Thence . . . . FORT WAYNE TRANSITION (FWA.CRUXX4): From over FWA VORTAC via FWA R-016 to MODEM INT and DXO R-254 to CRUXX INT. Thence . . . . LITCHFIELD TRANSITION (LFD.CRUXX4): From over LFD VORTAC via LFD R-106 to CRUXX INT. Thence . . . .

.... Aircraft landing Y47, PTK, OMI7, ØZW, ONZ, 1D2, TTF, VLL: From over CRUXX INT via 025° heading.

. . . . Aircraft landing YIP or ARB: From over CRUXX INT via 050° heading.

Expect radar vector to final approach course.



EC-1, 26 AUG 2010 to 23 SEP 2010

42°38′N - 83°59′W ILS or LOC

#### ARRIVAL DETROIT, MICHIGAN 118.95 363.2 PONTIAC ATIS 125.025 124.875 WINDSOR ATIS 134.5 SELFRIDGE ATIS 125.325 270.1 127.425 ANN ARBOR ATIS 134.55 NOTE: RADAR REQUIRED DETROIT APP CON COLEMAN A. YOUNG ATIS WILLOW RUN ATIS NOTE: Chart not to scale. JOHNSTOWN L-29, H-10-12 W78°50.05′ N40°19.00′ Chan 77 115.5 PSB :::::. Chan 102 PHILPSBURG W77°59.56′ N40°54.98′ L-30, H-10-12 MAA FL450 FL180 289 (66) 41°0°, Z 114.4 ACO ===== 112.7 CXR ==== W81°12.09′ W80°24.97′ N41°06.47" N41°11.53' AKRON Chan 91 CHARDON HAGUD L-30, H-10 19 Chan 74 117.1 AIR 🛅 R-102 Chan 118 BELLAIRE Turboprops: Expect clearance to cross at 8,000'. Furbojets: Expect clearance to cross at 10,000′ 8 EC-1, 26 AUG 2010 to 23 SEP 2010 PLANNING INFORMATION VERTICAL NAVIGATION W81°34.66′ N41°18.34′ N41°50.55′-W82°37.38′ CANCR . . . . Aircraft Landing Coleman A. Young Muni, Oakland County Intl, Windsor, Oakland/Troy, Southwest, Livingston County: From over LLEEO INT via 330° heading. Expect radar vectors to ILEEO AKRON TRANSITION (ACO.LLEEO2): From over ACO VOR/DME via ACO R-309 and DXO JOHNSTOWN TRANSITION (JST. LLEEO2): From over JST VORTAC via JST R-313 to HAGUD 00 INT, then via DJB R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. DRYER TRANSITION (DJB.LLEEO2): From over DJB VOR/DME via DJB R-330 to LLEEO INT. 27 PHILPSBURG TRANSITION (PSB.LLEEO2): From over PSB VORTAC via PSB R-289 and DJB . . . Aircraft Landing Willow Run, Ann Arbor Muni, Canton-Plymouth-Mettetal, Oakland 9 W82°12.83' N41°38.07′ R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. Thence . . . . Selfridge ANGB: From over LLEEO INT via 360° heading. Expect radar vectors to final PEJAE R-102-10000 ARRIVAL ROUTE DESCRIPTION SELFRIDGE ANGB COLEMAN A. YOUNG MUNI WINDSOR -8-065 113.6 DJB ::: W82°09.72′ L-30, H-10 N41°21.48′ Chan 83 DRYER OAKLAND/ TROY R-130 to LLEEO INT. Thence OAKIAND COUNTY NTL 113.4 DXO =::= CANTON PLYMOUTH **♦** METTETAL WILLOW DETROIT Z N Chan 81 OAKLAND SOUTHWEST 🔷 13.1 vwv :: I final approach course.

WATERVILLE

Chan 78

# ARRIVAL

ANN ARBOR 🗘

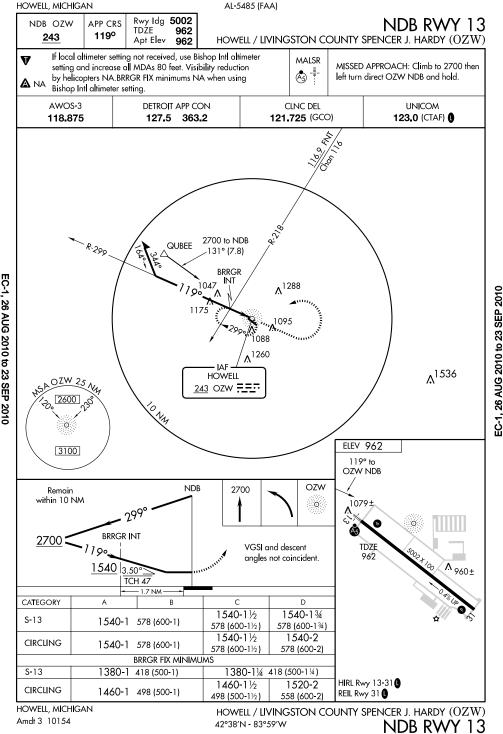
Thence.

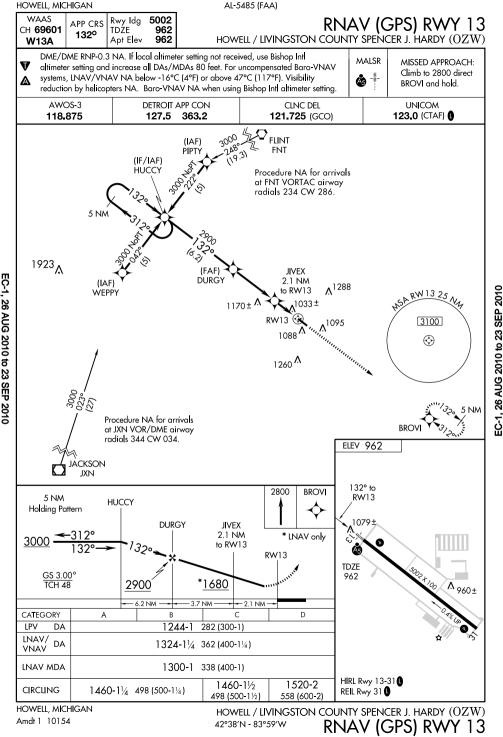
Thence.

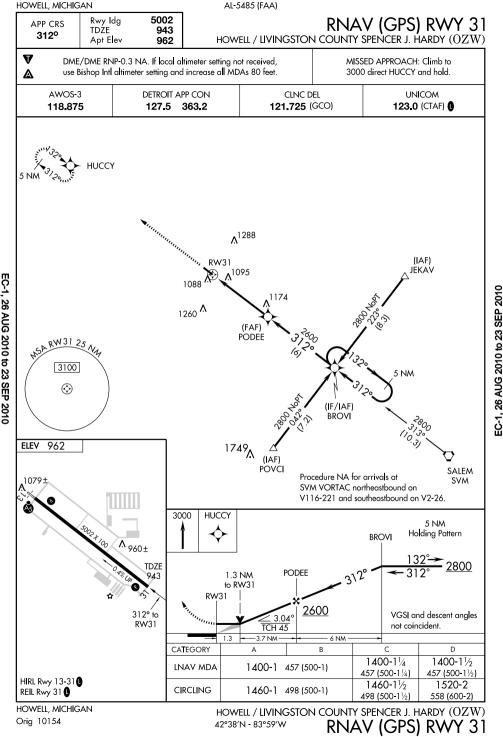
approach course.

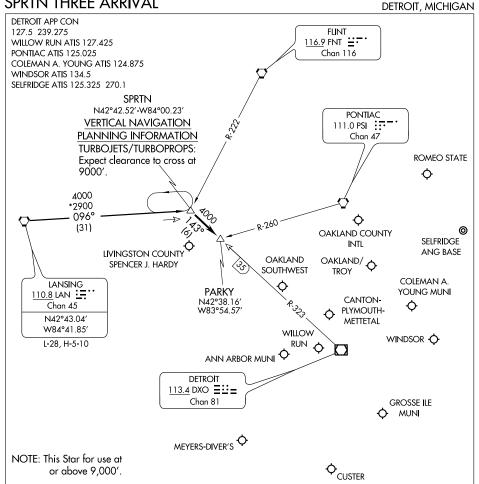
EC-1, 26 AUG 2010 to 23 SEP 2010

LIMINGSTON









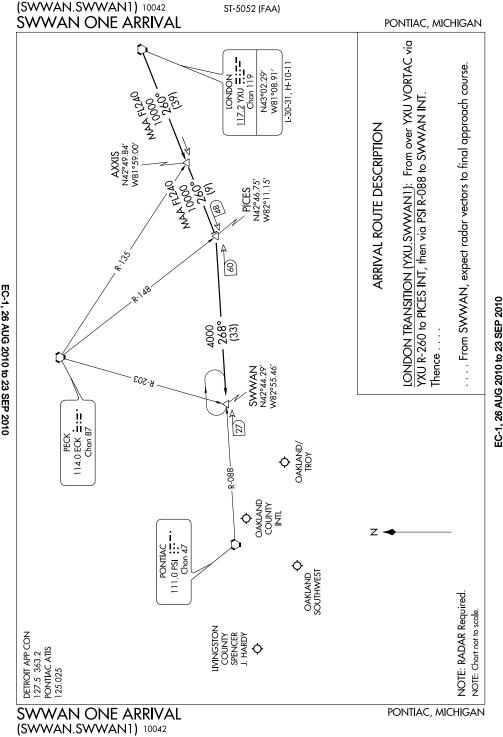
LANSING TRANSITION (LAN.SPRTN3): From over LAN VORTAC via LAN R-096 to SPRTN INT. Thence . . . .

. . . . Aircraft landing: DET, PTK, VLL, D98, MTC, ARB, YIP, ONZ, 1D2, TTF, Y47, 36MI, OZW, 3TE, YQG: From over SPRTN INT via DXO R-323

to PARKY INT. Thence . . . .

. . . . Expect radar vectors to final approach course.

NOTE: Chart not to scale.



INDIAN CREEK RANCH (See DECKERVILLE) INDIAN RIVER

(Y88) 3 S

NOTAM FILE LAN RWY 05-23: 2800X170 (TURF) RWY 05: Trees.

RWY 16-34: 1700X170 (TURF) RWY 16: Thid dspicd 200'. Trees.

COMMUNICATIONS: CTAF 122.9

(Y7Ø)

RWY 18: Trees.

**S4** 

RWY 09-27: H4300X75 (ASPH)

during glider operations.

(R) LANSING APP/DEP CON 118.65

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. LANSING (L) VORTACW 110.8

(See EAST TAWAS)

(See CRYSTAL FALLS)

3 S

RWY 18-36: 4290X340 (TURF) 0.3% up S

RWY 09: PAPI(P4L)-GA 3.0° TCH 25'. Tree.

RWY 27: REIL. PAPI(P4L)-GA 3.0° TCH 22'. Trees.

WEATHER DATA SOURCES: AWOS-3 118.9 (616) 523-1852.

GRAND RAPIDS RCO 122.1R 115.95 (LANSING RADIO)

W84°41.85' 315° 20.8 NM to fld. 887/5W.

RWY 36: Tree. AIRPORT REMARKS: Attended 1400-2200Z‡, Rwv 18-36 CLOSED Nov 15-Apr 15. Glider ops conducted S of Rwy 09-27 and W of Rwy 18-36 use freq 123.3 in practice area. Gliders use 122.8 in tfc pattern. ACTIVATE rotating bcn-122.8. ACTIVATE MIRL Rwy

09-27, PAPI and REIL Rwy 27-122.8. Rwy 18 ends marked with

3' vellow cones, Acft parked adjacent to Rwy 18-36 and 09-27

FUEL 100LL

**COMMUNICATIONS: CTAF 122.9** 

RWY 10: Trees.

INTERLOCHEN **GREEN LAKE** 

866

IONIA CO

212

IOSCO CO

IRON CO

(See BAD AXE)

RAFTHER

982

**HURON CO MEM** 

(4Y1)

CALVIN CAMPBELL MUNI (Y65) 1 E UTC-5(-4DT) N45°24.50′ W84°36.00′

NOTAM FILE LAN RWY 10-28: H3006X50 (ASPH) LIRL

RWY 28: Thid dspicd 600'. Trees.

RWY 23: Thid dspicd 600'. Trees.

FUEL 100LL, JET A NOTAM FILE LAN

AIRPORT REMARKS: Attended irregularly. Snow removal intermittent: to verify condition call 231-238-8614. Deer and

birds on and invof arpt. ACTIVATE LIRL Rwy 10-28-CTAF. RADIO AIDS TO NAVIGATION: NOTAM FILE PLN.

UTC-5(-4DT) N42°56.28' W85°03.63'

S-19 MIRL 0.3% up W

LAN Chan 45 N42°43.04'

RWY 34: Thid dspicd 380'. Trees. AIRPORT REMARKS: Unattended. CLOSED Nov-Mar. Remote control model acft opr area south of Rwy 34 end. 460' antenna 1.25 NM N of arpt. Noise sensitive area one mile N of arpt. Athletic flds on centerline N end Rwy 16-34; Do not use rwy when in use. Rwy 05-23 and Rwy 16-34 and dsplcd thids marked with 3' yellow cones.

UTC-5(-4DT) N44°36.37′ W85°45.51′

PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84′ W84°39.85′ 175° 13.6 NM to fld. 840/6W.

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**GREEN BAY** 

CHICAGO

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4300 X 75

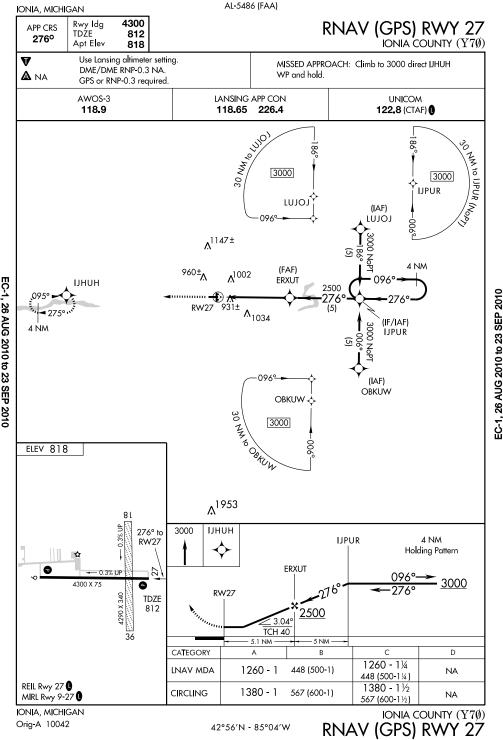
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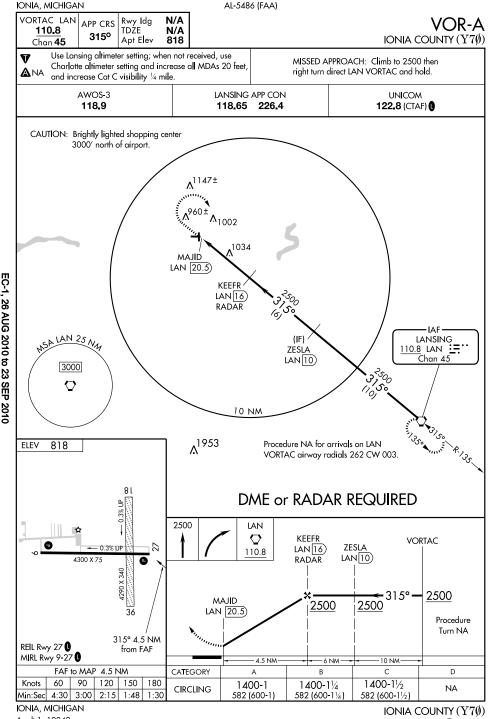
L-281

IAP

L-31C

LAKE HURON





Amdt 1 10042

VOR-A

#### 168 MICHIGAN

Chan 49

## RCO 122.1R 111.2T (GREEN BAY RADIO) IRON MOUNTAIN/KINGSFORD

3 W UTC-6(-5DT) N45°49.10' W88°06.87' (IMT)

FORD 1182 R **S4** 

(L) VOR/DME 111.2 IMT

RWY 13: Trees.

RWY N1.

RWY 13:

RWY 19-

RWY 31:

NOTAM FILE IMT

RUNWAY DECLARED DISTANCE INFORMATION

IRON MOUNTAIN N45°48.96′ W88°06.73′

5000', 020°-140° blo 10000'.

FUEL 100LL, JET A

OX 4 RWY 01-19: H6501X150 (ASPH-PFC) S-100, D-100, 2S-127, 2D-190

RWY 01: MALSR. Trees.

RWY 19: REIL, VASI(V4L)-GA 3.0° TCH 42'.

TORA-3809 TODA-3809 ASDA-3809 LDA-3809

TORA-6501 TODA-6501 ASDA-6501 LDA-6501 TORA-3809 TODA-3809 ASDA-3809 LDA-3809

AIRPORT REMARKS: Attended 1130-0530Z‡. Ldg fee. Deer; coyotes and birds on and invof arpt, 48 hr PPR for unscheduled air carrier ops with more than 30 passenger seats call 906-774-4830. Air carrier ops involving acft with more than 9 passenger seats are not authorized in excess of 15 minutes before or after scheduled arrival/dep times without prior coordination with arpt manager and confirmation that ARFF is avbl prior to tkf or landing. ARFF crews will be monitoring UNICOM/CTAF during all air carrier ops. Snow removal crew will be monitoring CTAF/UNICOM during all air

RWY 13-31: H3809X75 (ASPH) S-30, D-50, 2D-80

NOTAM FILE IMT.

DME unusable 141°-220° byd 20 NM blo 2900′; 221°-315° byd 15 NM blo 4000′; 316°-019° byd 20 NM blo

TPA—See Remarks

at Ford, 1128/2W.

MIRL RWY 31: REIL, VASI(V4L)—GA 4.0° TCH 40', Trees.

TORA-6501 TODA-6501 ASDA-6501 LDA-6501

HIRL

0.8% up N

Class I. ARFF Index A

030 61 C

GREEN BAY

**GREEN BAY** 

H-2J, L-31A

IAP

L-31A

æ

19 and 31; REIL Rwv 19 and 31; MALSR Rwv 01—CTAF, TPA—1982(800) Jet/Turbo-Jet/Prop over 12,500 lbs

carrier ops to pass along updated sfc condition reports. ACTIVATE HIRL Rwy 01-19, MIRL Rwy 13-31, VASI Rwy

IRON MOUNTAIN RCO 122.1R 111.2T (GREEN BAY RADIO)

AIRSPACE: CLASS E svc Mon-Fri 1200-0400Z‡, Sat 1500-0100Z‡, Sun 1500-0400Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE IMT.

Chan 49 N45°48.96' W88°06.73'

at fld. 1128/2W.

010° 5.5 NM to fld.

GREEN BAY

L-141

RWY 17-35: H2000X40 (ASPH) LIRL (NSTD)

STAMBAUGH (Y73) 1 SE UTC-6(-5DT) N46°04.73' W88°38.13' NOTAM FILE GRB

COMMUNICATIONS: CTAF/UNICOM 122.8

COMM/NAV/WEATHER REMARKS: UNICOM monitored part-time.

I-IMT Rwy 01. Class IC.

LOM KORDS NDB.

KORDS NDB (LOM) 255 IM N45°43.63' W088°07.96'

WEATHER DATA SOURCES: ASOS 119.025 (906) 774-1999.

IRON MOUNTAIN (L) VOR/DME 111.2 IMT

MINNEAPOLIS CENTER APP/DEP CON 121.25

2682(1500).

IRON RIVER

RWY 17: Trees. AIRPORT REMARKS: Unattended, Deer on and invof arpt, 100' drop off at each rwy end, Rwy 17-35 slopes down from S to N. ACTIVATE LIRL Rwy 17-35-121.9. Rwy 17-35 NSTD LIRL 26' from rwy edge. Rwy 17-35 NSTD basic

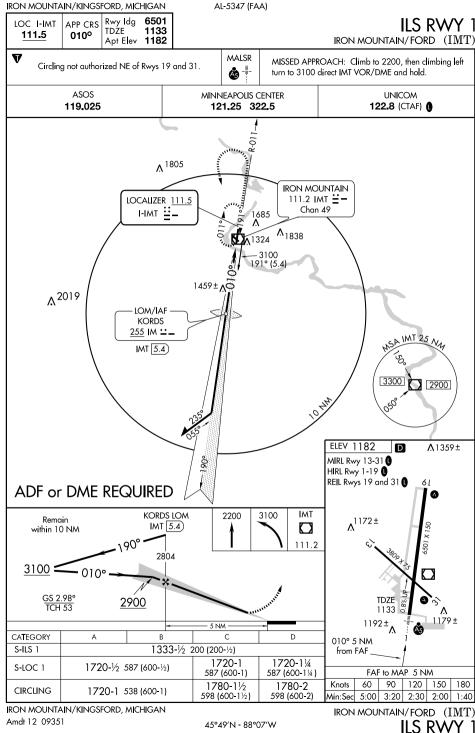
RCO 122 3 (GREEN BAY RADIO)

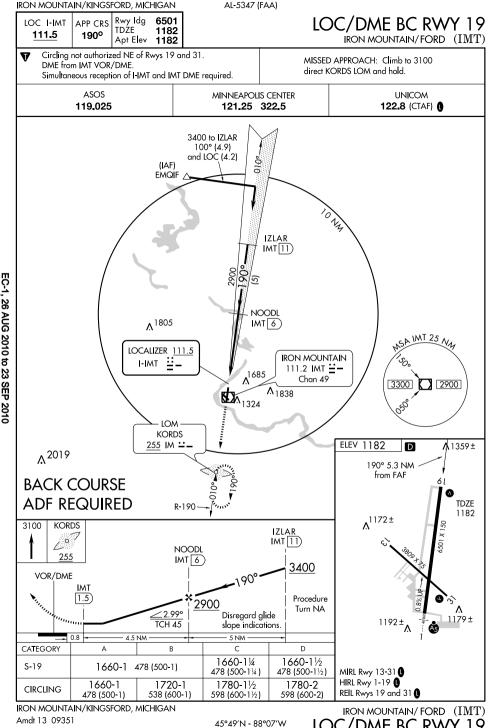
**COMMUNICATIONS: CTAF 122.9** 

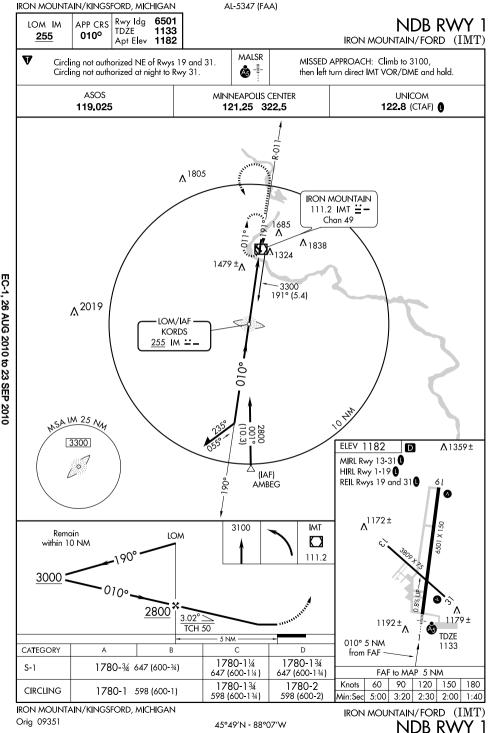
marking; does not start at pavement edge. Rwy 17-35 numerous cracks in rwy.

IRONWOOD N46°31.94′ W90°07.55′ NOTAM FILE IWD. (L) VORTACW 108.8 IWD Chan 25 at Gogebic-Iron Co. 1230/1E. HIWAS.

GREEN BAY





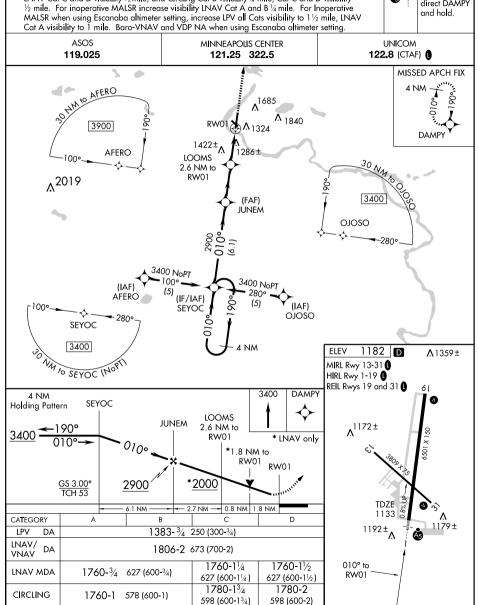


IRON MOUNTAIN/FORD (IMT)

Inoperative table does not apply to LPV. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). Circling NA NE of Rwys 19 and 31. DME/DME RNP-0.3 A NA. When local altimeter setting not received, use Escanaba altimeter setting and increase all DA/MDA 180 feet, increase LPV all Cats visibility ¼ mile, LNAV/VNAV all Cats visibility ¾ mile, LNAV Cat C and D visibility ½ mile, and Circling Cat B visibility ¼ mile, Cat C and D visibility ½ mile. For inoperative MALSR increase visibility LNAV Cat A and B¼ mile. For Inoperative

MISSED MALSR APPROACH: Climb to 3400 **₫** direct DAMPY and hold.

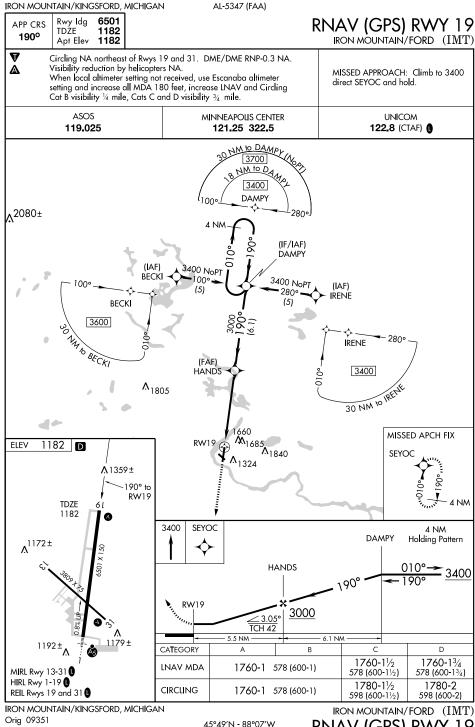
EC-1, 26 AUG 2010 to 23 SEP 2010



IRON MOUNTAIN/KINGSFORD, MICHIGAN Orig 09351

45°49'N - 88°07'W

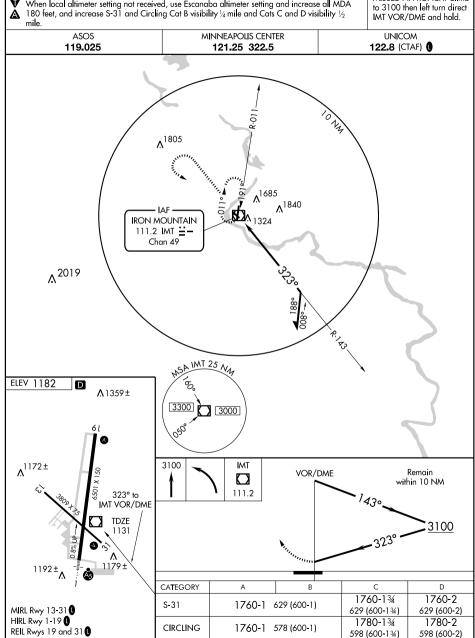
IRON MOUNTAIN/FORD (IMT) RNAV (GPS) RW



Circling NA NE of Rwys 19 and 31. Procedure NA at night. Visibility reduction by helicopters NA. When local altimeter setting not received, use Escanaba altimeter setting and increase all MDA 180 feet, and increase S-31 and Circling Cat B visibility ¼ mile and Cats C and D visibility ½

MISSED APPROACH: Climb to 3100 then left turn direct IMT VOR/DME and hold.

EC-1, 26 AUG 2010 to 23 SEP 2010



IRON MOUNTAIN/KINGSFORD, MICHIGAN

45°49'N - 88°07'W

(IMT) IRON MOUNTAIN/FORD VOR RW

1230 B FUEL 100LL, JET A Class II, ARFF Index A NOTAM FILE IWD RWY 09-27: H6501X130 (ASPH-GRVD) S-85, D-150, 2S-175, 2D-280 RWY 09: REIL, VASI(V4L)-GA 3.0° TCH 47', Trees. RWY 27: MALSR Trees RUNWAY DECLARED DISTANCE INFORMATION RWY 09: TORA-6501 TODA-6501 ASDA-6501 I DA-6501

RWY 27: TORA-6501 TODA-6501 ASDA-6501 LDA-6501 AIRPORT REMARKS: Attended 1400-0200Z‡. Be alert for PAEW during snow removal. Arpt signs may be snow covered during winter months. Arpt CLOSED to unscheduled air carrier opns with more (<) ଫ ଫ ଫ 🖟 ଫ 6501 X 130 ଫ ଫ ଫ than 30 passenger seats except 48 hr PPR call arpt manager 906-932-3121. Various wildlife on and invof arpt. ACTIVATE HIRL C C3 C3 Rwy 09-27; REIL Rwy 09; MALSR Rwy 27-CTAF. Ldg fee. Landing 00 fees waived if fuel purchased. Firefighting personnel will be monitoring CTAF during all scheduled air carrier ops. Arpt will be monitoring CTAF during all scheduled air carrier ops to convey latest rwy conditions during winter wx. WEATHER DATA SOURCES: AWOS-3 125.175 (906) 932-4039. HIWAS 108.8 IWD. COMMUNICATIONS: CTAF/UNICOM 122 8 IRONWOOD RCO 122.3 (GREEN BAY RADIO)

(IWD) 7 NE UTC-6(-5DT) N46°31.65′ W90°07.88′

(R) MINNEAPOLIS CENTER APP/DEP 133.55 RADIO AIDS TO NAVIGATION: NOTAM FILE IWD.

Chan 25 N46°31.94′ W90°07.55′

**JABLONSKI** 

JACK BARSTOW

IRONWOOD

GOGEBIC-IRON CO

at fld. 1230/1E. HIWAS.

ILS 111.5 I-IWD Rwv 27. **ISHPEMING** 

COMMUNICATIONS: CTAF 122 9

#### IRONWOOD (L) VORTACW 108.8 IWD Class IT.

EDWARD F JOHNSON (M61) 10 S UTC-5(-4DT) N46°20.71' W87°47.31' 1446 NOTAM FILE GRB

RWY 18-36: 2200X100 (TURF)

RWY 36: Thid dspicd 200'. Trees.

RWY 18: Trees.

AIRPORT REMARKS: Unattended. CLOSED winter months Dec-Apr and when snow covered. Rwy 18-36 rough with

sandy areas, Lgtd 419' AGL twr located 6100' south of arpt and 600' right of extended centerline Rwy 18-36. Rwy 18 marked with 3' yellow cones.

(See NUNICA)

(See MIDLAND)

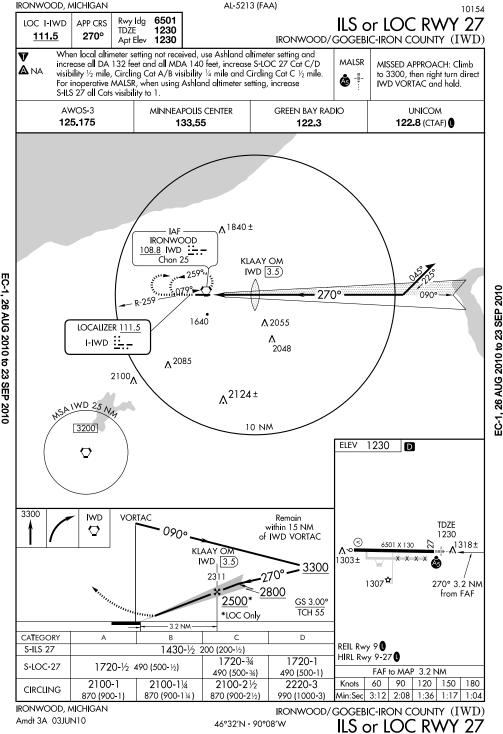
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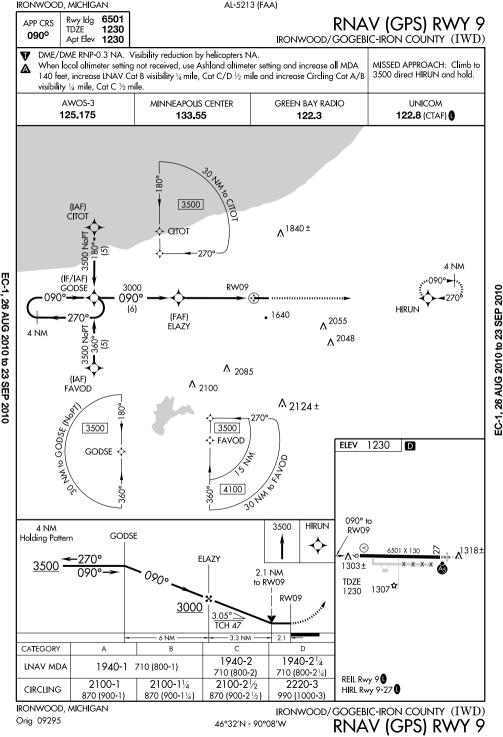
**GREEN BAY** 

**GRFFN RAY** 

H-2J, L-14I

IAP





Rwy Idg 6501 RNAV (GPS) RWY 27 APP CRS 1230 CH 50212 TDŹE 270° IRONWOOD/GOGEBIC-IRON COUNTY (IWD) 1230 Apt Elev W27A Inoperative table does not apply to LPV and LNAV/VNAV all Cats and LNAV Cats A and B. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. When using Ashland altimeter setting: inoperative MALSR MISSED APPROACH: table does not apply to LNAV/VNAV all Cats and LNAV Cat A. When using Ashland altimeter Climb to 3500 direct setting: for inoperative MALSR, increase LNAV Cat B visibility to 11/4 mile. Baro-VNAV and GODSE and hold. VDP NA when using Ashland altimeter setting. When local altimeter setting not received, use Ashland altimeter setting and increase all DA 132 feet and all MDA 140 feet, increase LNAV/VNAV Cat C visibility ¼ mile, LNAV Cat C/D visibility ½ mile, and Circling Cat A/B visibility ¼ mile, Cat C ½ mile. AWOS-3 GREEN BAY RADIO UNICOM MINNEAPOLIS CENTER 125.175 133,55 122.3 122,8 (CTAF) ( 30 MM OS (IAF) BIVBE 3500 <sup>1840 ±</sup>∧ 3500 NoP BIVBE 2 **BADVE** 4 NM 0909 2.6 NM to RW27 3300 1346± 3000 270° (2.4)(3.6)(IF/IAF) (FAF) PETFI 1641± HIRUN ∧ CRAAG 3500 NoPT 4 NM 2055 360° ۸ <sub>2048</sub> For LNAV/VNAV DA fly visual to airport, 270° -2.8 miles, when using Ashland altimeter setting fly visual to airport, 270° -3.2 mile. 0909 8 Λ 2100 (IAF) NO HIRUN (NOA) DUPME DUPME 3500 30 TAN 10 OURME 2124± HIRUN 3500 ELEV 1230 D **GODSE** \* LNAV only 4 NM 3500 HIRUN Holding Pattern **BADVE** PETFI 2.6 NM **CRAAG** to RW27 3500 **TDZE** \*1.9 NM 1230 GS 3.00° to RW27 3300 TCH 55 **∆**1318± 6501 X 130 For LNAV/VNAV DA fly visual to airport, RW27 1303± 270° -2.8 miles, when using Ashland 2100 altimeter setting fly visual to airport, 3000 270° to 1307<sup>‡</sup> 270° -3.2 mile. RW27 1.9 - 0.7-2.7 NM 3.6 NM -2.4 NM-CATEGORY D Α 1430-1 LPV DA 200 (200-1) 2166-23/4 2166-3 LNAV/ 2166-2 936 (1000-2) VNAV DA 936 (1000-23/4) 936 (1000-3) 1900-11/4 1900-11/2 LNAV MDA 1900-1 670 (700-1) 670 (700-11/4) 670 (700-11/2) REIL Rwy 90

HIRL Rwy 9-27 1

IRONWOOD, MICHIGAN

WAAS

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, 26 AUG 2010 to 23 SEP 2010

2100-11/4

870 (900-11/4)

2100-1

870 (900-1)

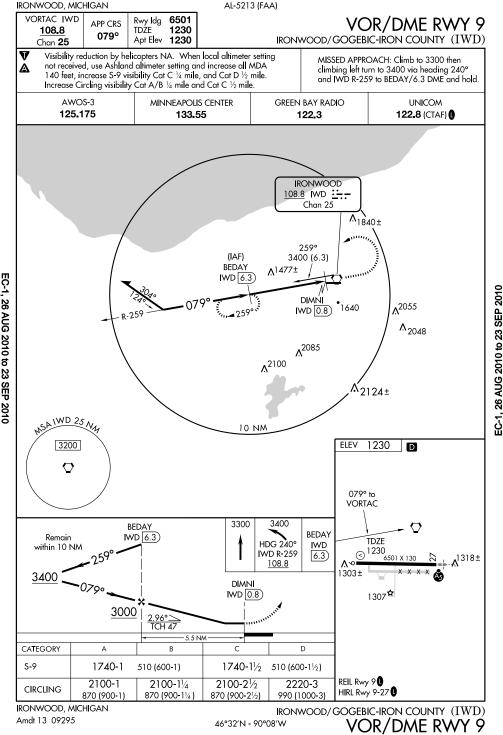
CIRCLING

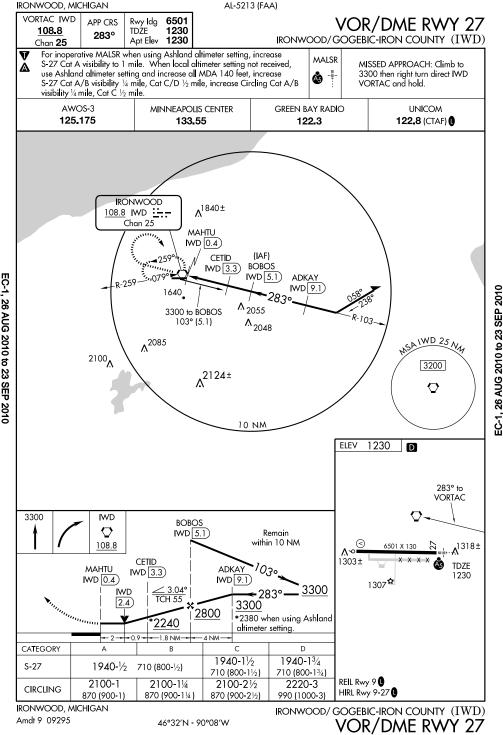
2220-3

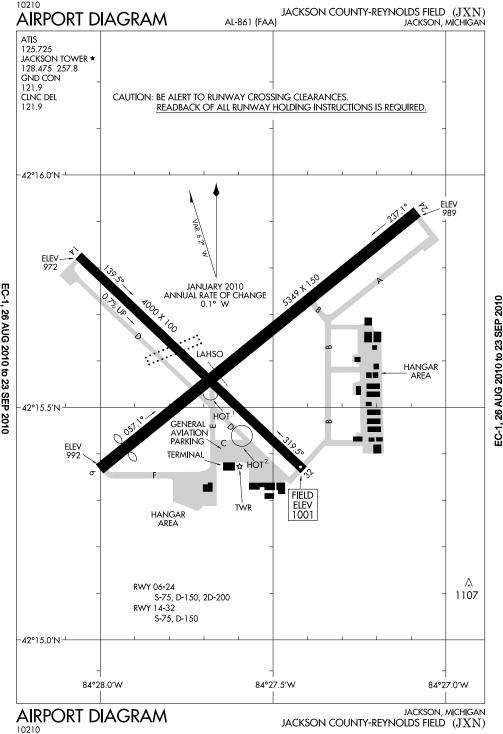
990 (1000-3)

2100-21/2

870 (900-21/2)







170

### MICHIGAN

JACKSON CO-REYNOLDS FLD (JXN) 2 W UTC-5(-4DT) N42°15.63′ W84°27.63′ 1001 B S4 FUEL 100LL, JET A NOTAM FILE JXN RWY 06-24: H5349X150 (ASPH - GRVD) S-75, D-150, 2D-200

RWY 06: VASI(V4L)—GA 3.0° TCH 27', Thid dsplcd 440', Railroad.

RWY 24: MALSR. Trees. RWY 14-32: H4000X100 (ASPH-GRVD) S-75, D-150 MIRL

RWY 14: PAPI(P4L)-GA 3.0° TCH 25'. Trees. RWY 32: REIL, PAPI(P4L)-GA 3.5° TCH 31', Trees.

0.3% up SW

LAND AND HOLD SHORT OPERATIONS

LANDING HOLD SHORT POINT

DIST AVBL

**RWY 24** 14 - 323406

AIRPORT REMARKS: Attended Apr-Oct 1200-0100Z‡, Nov-Mar

1300-2300Z‡. CAUTION: Deer and birds on and invof arpt. Low

altitude acft ops prohibited invof prison 4 mi NE. When twr closed

ACTIVATE HIRL Rwy 06-24, MIRL Rwy 14-32; VASI Rwy 06, PAPI Rwy 14 and Rwy 32; REIL Rwy 32; MALSR Rwy 24-CTAF. WEATHER DATA SOURCES: ASOS (517) 768-7506. COMMUNICATIONS: CTAF 128.475 ATIS 125.725

**UNICOM 122.95** RCO 122.2 (LANSING RADIO) (R) LANSING APP/DEP CON 127.3

TOWER 128.475 (1200-0200Z‡) GND CON 121.9 **CLNC DEL 121.9** 

AIRSPACE: CLASS D svc 1200-0200Z‡ other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE JXN.

(L) VORW/DME 109.6 JXN Chan 33 N42°15.55′ W84°27.51′ at fld. 995/5W.

VOR portion unusable 250°-310° byd 20 NM. DME portion unusable 075°-255° byd 10 NM blo 3000'. JAKSO NDB (LOM) 212 JX N42°19.07′ W84°21.93′ 236° 5.5 NM to fld.

ILS 109.1 I-JXN Rwy 24 LOM JAKSO NDB. ILS and LOM unmonitored when twr clsd.

JAKSO N42°19.07′ W84°21.93′ NOTAM FILE JXN.

NDB (LOM) 212 JX 236° 5.5 NM to Jackson Co-Reynolds Fld. LOM unmonitored when twr clsd.

(Ø8C) 3 NW UTC-5(-4DT) N42°56.15′ W85°48.30′

JAMES CLEMENTS MUNI (See BAY CITY)

# **JENISON**

RIVERVIEW

FUEL 100LL NOTAM FILE LAN

RWY 14-32: H3920X49 (ASPH) MIRL RWY 14: Trees. RWY 32: Thid dsplcd 1196'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡, Sat-Sun

irregularly. Fuel 24 hr self serve. Deer and birds on and invof arpt.

Rwv 14-32 trees and shrubs in transition zone both sides. ACTIVATE MIRL Rwy 14-32-CTAF.

RADIO AIDS TO NAVIGATION: NOTAM FILE MKG.

COMMUNICATIONS: CTAF 122.9

MUSKEGON (L) VORTACW 115.2 MKG Chan 99 N43°10.16'

W86°02.36' 144° 17.4 NM to fld. 659/1W. HIWAS.

Construction C Rwy 14-32: 4000 X 100

DETROIT

IAP. AD

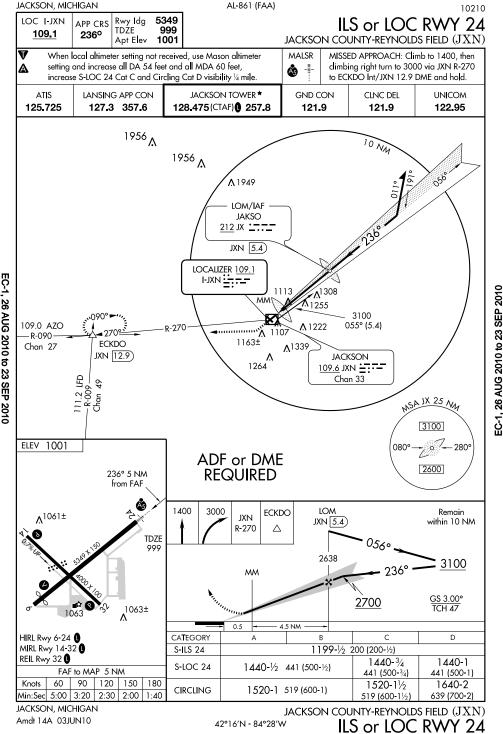
DETROIT

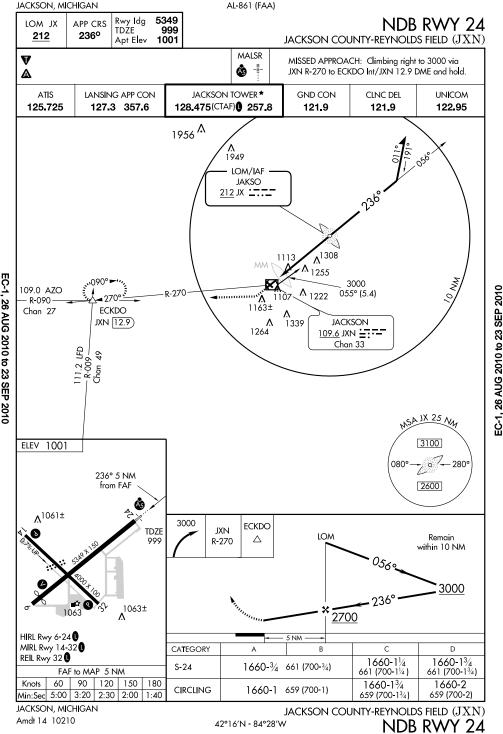
CHICAGO

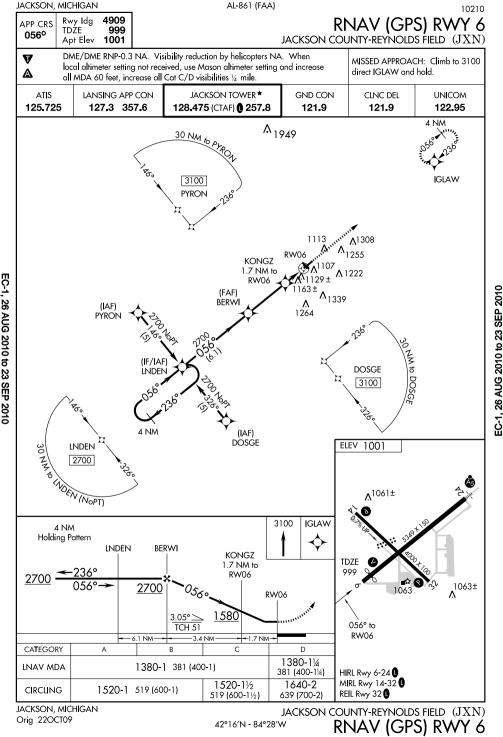
H-10G, L-28J

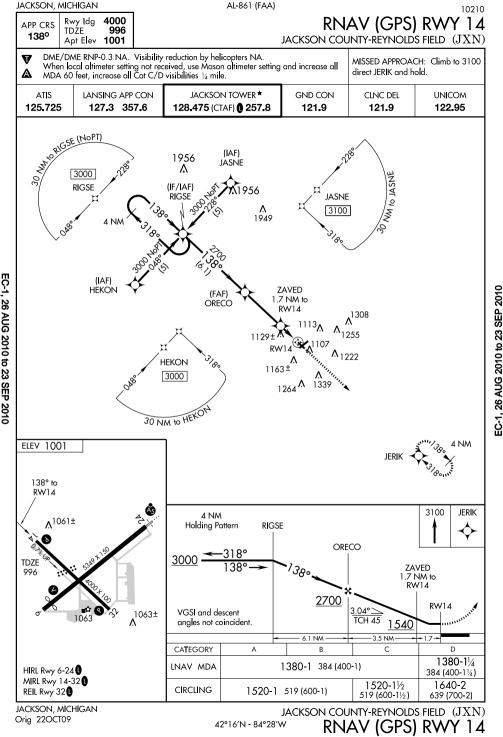
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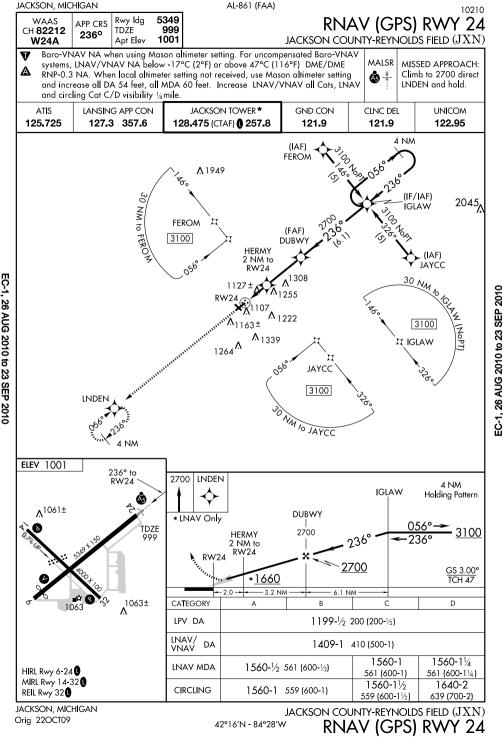
JERRY TYLER MEML (See NILES)

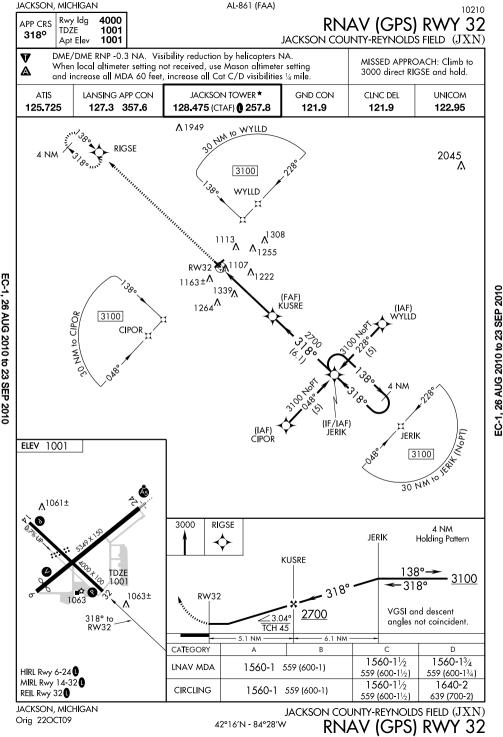


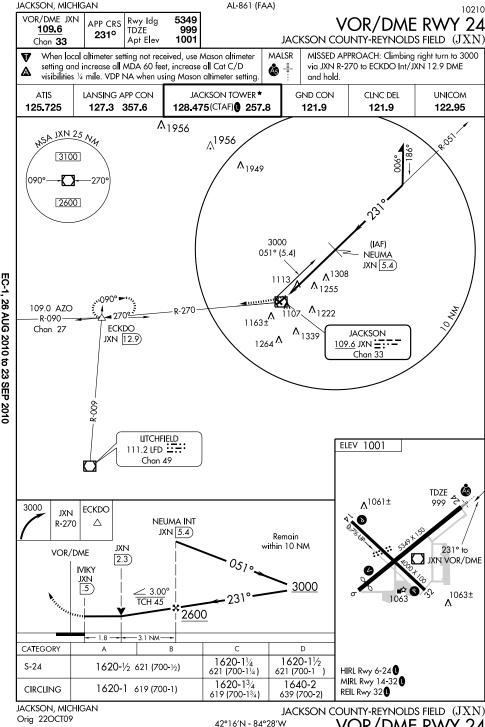




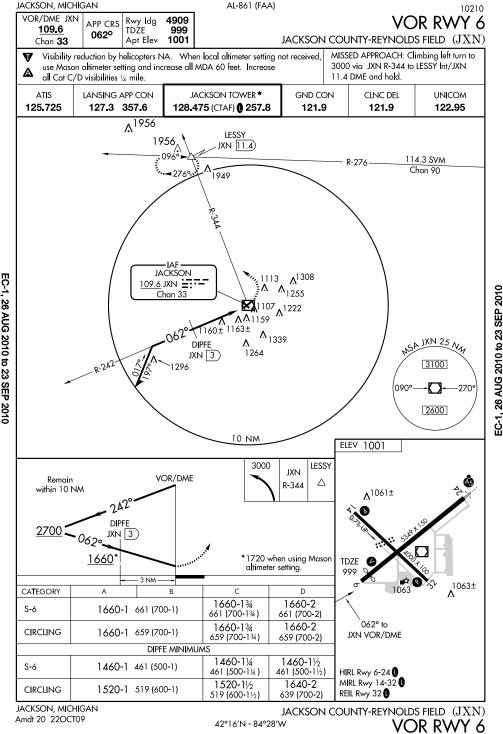


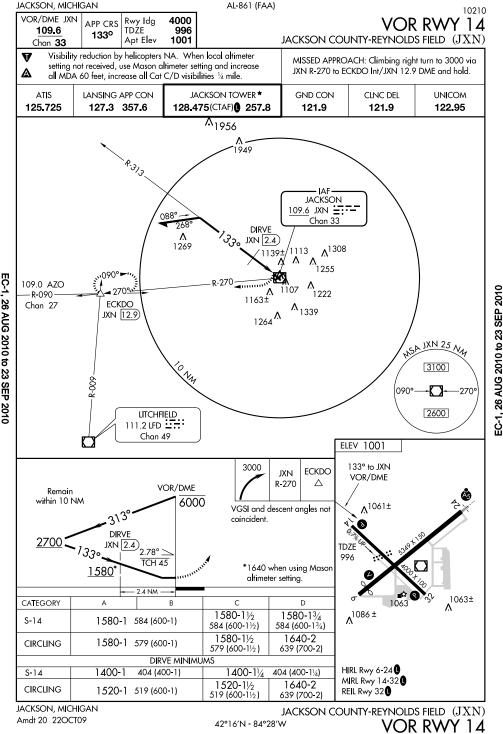


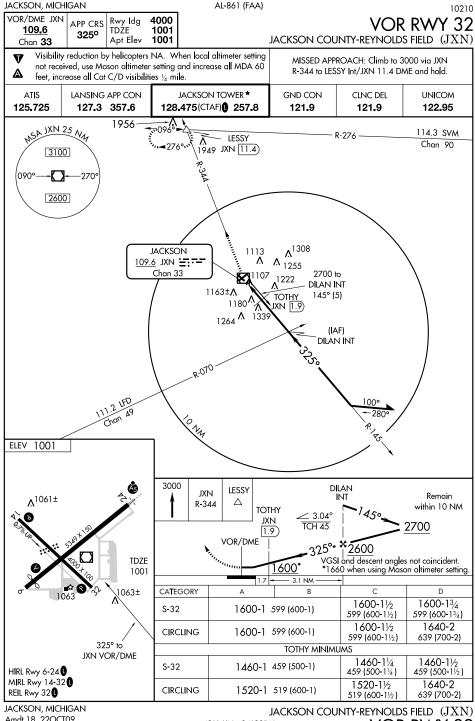




VOR/DME RWY 24



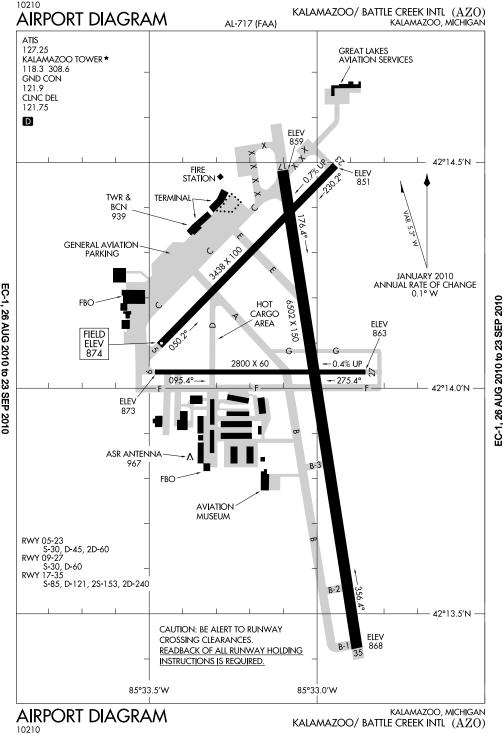




Amdt 18 22OCT09

EC-1, 26 AUG 2010 to 23 SEP 2010

VOR RW



171 MICHIGAN

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NOTAM FILE AZO

Residential Aron

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carrier two only and Rwy 09-27 not avbl for air carrier ops with more than 10 passenger seats. Migratory water fowl roosting area 5500' apch end Rwy 35. Birds on and invof arpt. PPR for unscheduled air carrier ops with more than 30 passenger seats call arpt manager 269-388-3668. Rwy 09 and Rwy 05 apch ends are closely aligned. Verify correct rwy and compass heading prior to departure. When twr clsd ACTIVATE HIRL Rwy 17-35, MIRL Rwy 05-23 and Rwy 09-27; MALSR Rwy 35; PAPI Rwy 05, Rwy 23, Rwy 17, and Rwy 35; REIL Rwy 05, Rwy 23 and Rwy 17—CTAF, FAR PART 36 noise limits in effect 0400-1130Z±, For customs call 269-965-3349.

AUSTN NDB (LOM) 371 AZ N42°07.86′ W85°31.79′ 354° 6.3 NM to fld. Unmonitored when twr clsd.

RWY 36: Thid dsplcd 385'. Tree. AIRPORT REMARKS: Attended irregularly. Deer invof rwy. Rwy 18-36 and dsplcd thids marked with 3' yellow cones.

N44°43.51′ W85°12.19′

RWY 28: PAPI(P2L)-GA 4.0° TCH 32'. Trees.

## KALAMAZOO

#### KALAMAZOO/BATTLE CREEK INTL (AZO) 3 SE UTC-5(-4DT) N42°14.06' W85°33.09'

D

MIRI

IRA Class I. ARFF Index B RWY 17-35: H6502X150 (ASPH-GRVD) S-85, D-121, 2S-153,

2D-240 HIRL

S4

RWY 17: REIL. PAPI(P4L)-TCH 45'. Trees. RWY 35: MALSR. PAPI(P4L)-GA 3.0° TCH 53'. Railroad. RWY 05-23: H3438X100 (ASPH-GRVD) S-30, D-45, 2D-60

0.7% up SW RWY 05: REIL. PAPI(P4L)-GA 3.0° TCH 28'. Pole.

Twys F and G east of Rwy 17-35 restricted acft less than 12,500 lbs.

(R) APP/DEP CON 121.2 (175°-353°) 119.2 (354°-174°) 123.8 (1100-0400Z‡)

TOWER 118.3 (1100-0400Z‡) GND CON 121.9 CLNC DEL 121.75 AIRSPACE: CLASS D svc 1100-0400Z‡ other times CLASS G.

(L) VOR/DME 109.0 AZO Chan 27 N42°14.22′ W85°33.19′

unusable byd 10 NM, LOC and GS unmonitored when twr closed.

(4NØ) 7 W UTC-5(-4DT) N42°17.34′ W85°45.00′

1 SW UTC-5(-4DT)

WEATHER DATA SOURCES: ASOS (269) 384-5729. LAWRS. COMMUNICATIONS: CTAF 118.3 ATIS 127.25 UNICOM 122.95

R CHICAGO CENTER APP/DEP CON 127.55 (0400-1100Z‡)

DME portion unusable bvd 35 NM blo 2500'.

Rwv 35.

RCO 122.1R 109.0T (LANSING RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE AZO.

I-AZO

ACTIVATE LIRL Rwy 18-36-122.9. COMMUNICATIONS: CTAF: 122.9

(Y89)

RWY 10-28: H3500X75 (ASPH) MIRL RWY 10: PAPI(P2L)-GA 3.0° TCH 24'. Trees.

RADIO AIDS TO NAVIGATION: NOTAM FILE TVC.

NOTAM FILE LAN

FUEL 100LL, JET A OX 1, 3 TPA-1674(800)

RWY 23: REIL. PAPI(P4L)-GA 3.5° TCH 34'. Tree. RWY 09-27: H2800X60 (ASPH) S-30, D-60 MIRL RWY 09: Tree.

RWY 27. Railroad RUNWAY DECLARED DISTANCE INFORMATION

RWY 05: TORA-3438 TODA-3438 ASDA-3438 LDA-3438 RWY 09: TORA-2800 TODA-2800 ASDA-2800 LDA-2800

RWY 17: RWY 23:

RWY 27-RWY 35:

TORA-6502 TODA-6502 ASDA-6502 LDA-6502 TORA-3438 TODA-3438 ASDA-3438 LDA-3438 TORA-2800 TODA-2800 ASDA-2800 LDA-2800

TORA-6502 TODA-6502 ASDA-6502 LDA-6502

TRSA svc ctc APP CON

ASR (1100-0400Z‡)

840 NOTAM FILE LAN RWY 18-36: 2697X125 (TURF) LIRL RWY 18: Thid dspicd 191'. Trees.

NEWMAN'S

KALKASKA CITY

Rwy 28-CTAF. COMMUNICATIONS: CTAF 122 9

AIRPORT REMARKS: Attended continuously. Rwy 05-23 avbl for air

LOM AUSTN NDB, LOC BC unusable byd 10° left and right of course, LOC BC

CHICAGO

GREEN BAY

L-31B

AIRPORT REMARKS: Unattended. Deer and birds on and invof arpt. ACTIVATE MIRL Rwy 10-28 and PAPI Rwy 10 and

TRAVERSE CITY (H) VORTACW 114.6 TVC Chan 93 N44°40.07′ W85°33.00′ 079° 15.2 NM to fld. 912/2W.

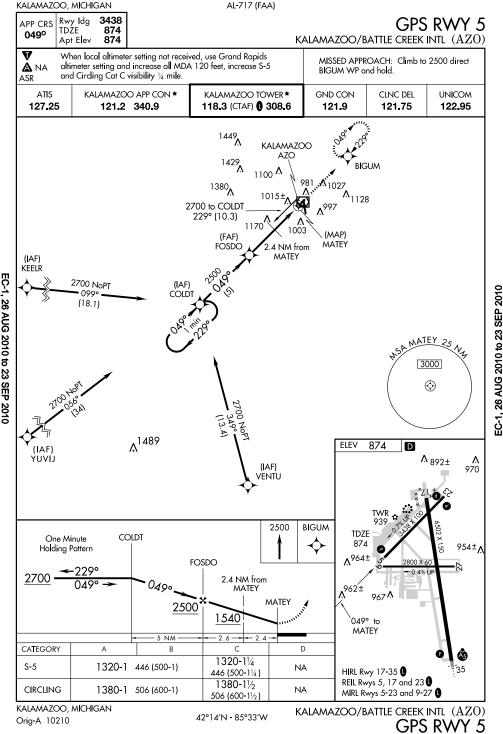
H-5E, 10F, L-28I IAP. AD 33

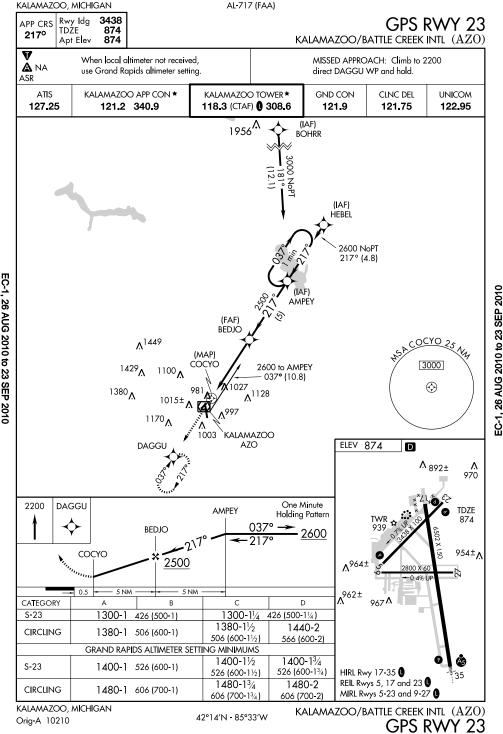
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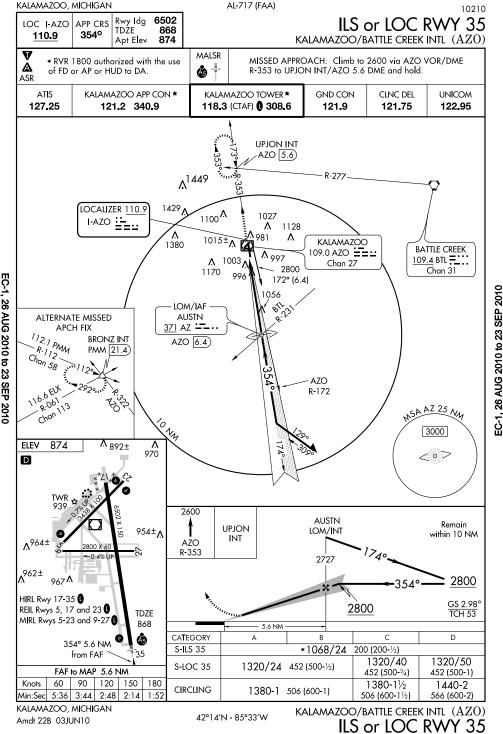
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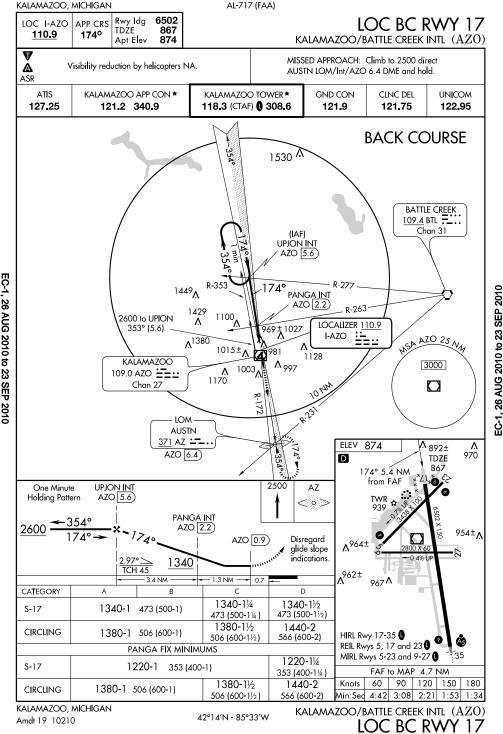
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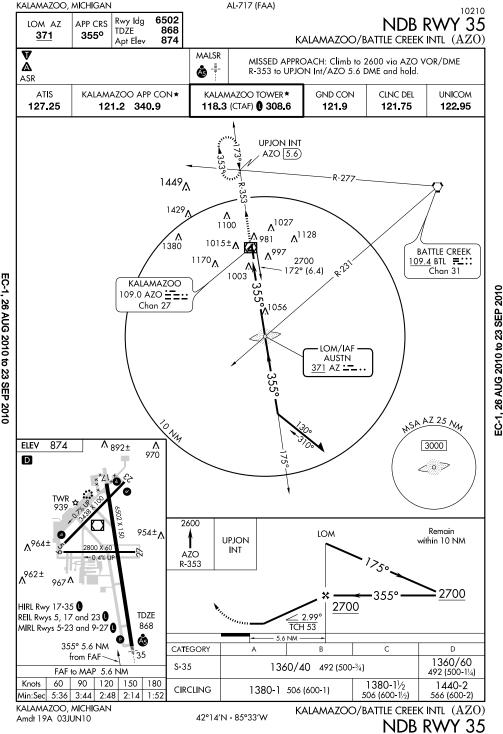
CHICAGO

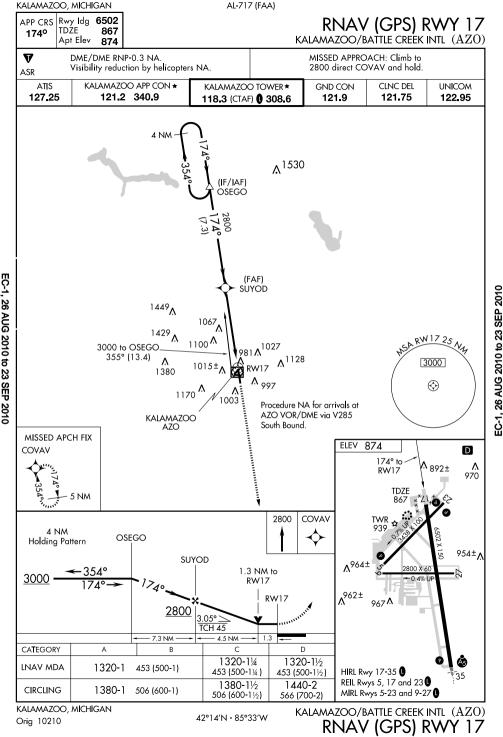


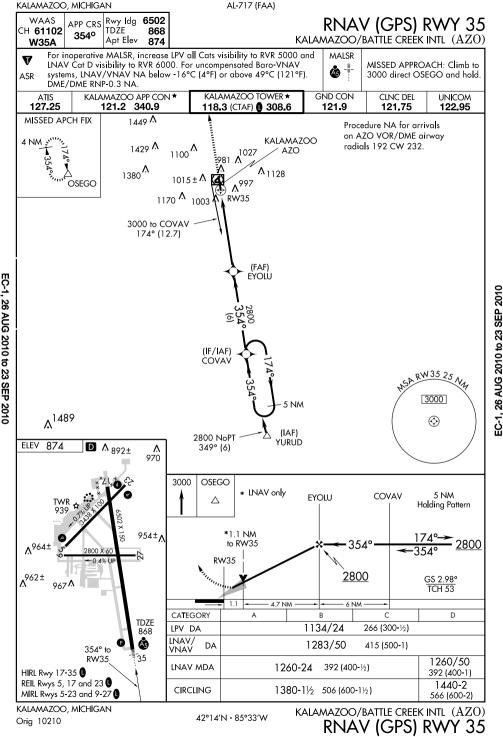


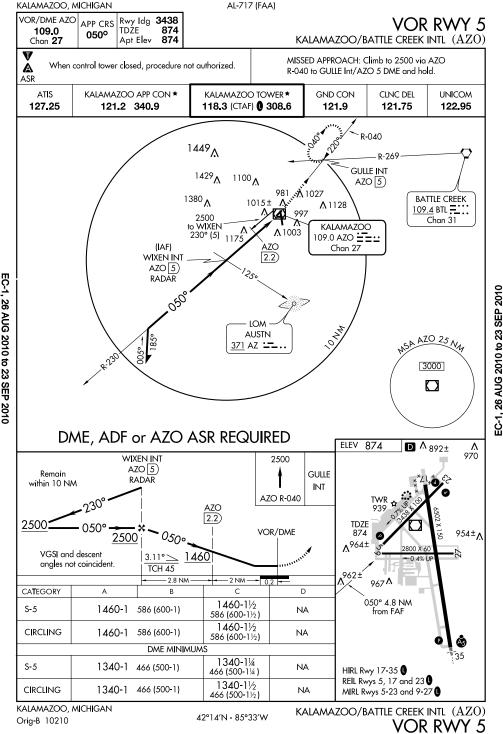


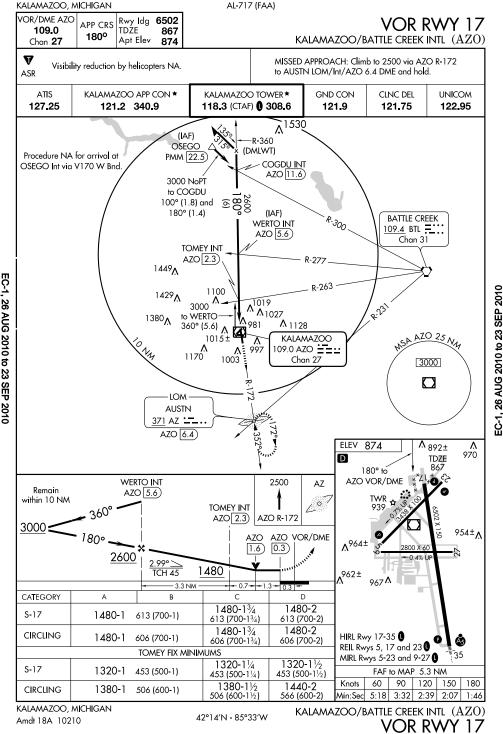


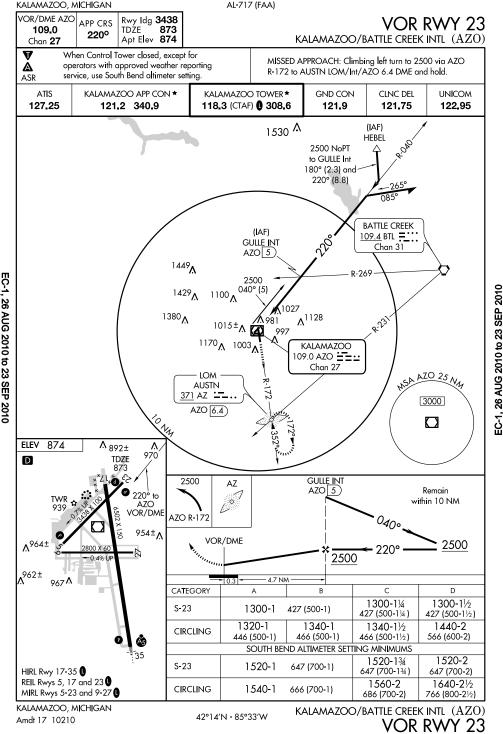


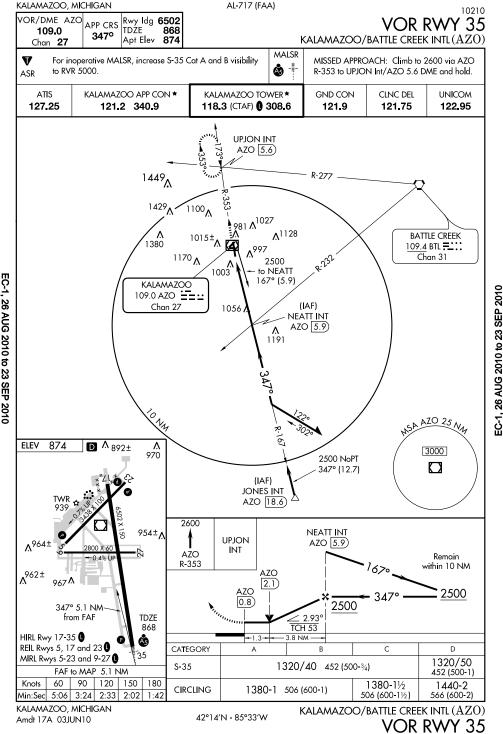












LAKEVIEW ARPT-GRIFFITH FLD (13C) 1 NE UTC-5(-4DT) N43°27.13' W85°15.89'

assistant arpt manager on 616-527-0915. ACTIVATE MIRL Rwy

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CHICAGO

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DETROIT

L-28J

IAP

## LAMBERTVILLE TOLEDO SUBURBAN (DUH) 2 SW UTC-5(-4DT) N41°44.15′ W83°39.35′

В S4

RWY 09-27: H3500X75 (ASPH) S-12

COMMUNICATIONS: CTAF/UNICOM 122.8

RWY 09: REIL, PAPI(P2L)-GA 3.0° TCH 40', Trees. RWY 27: REIL, PAPI(P2L)-GA 3.0° TCH 50', Trees. AIRPORT REMARKS: Attended 1300Z±-dusk. For service after hrs call

Helicopter ops on grass area N of Rwv 09-27.

(R) GRAND RAPIDS APP/DEP CON 124.6 (1030-0500Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

R CHICAGO CENTER APP/DEP CON 128.5 (0500-1030Z±)

W85°42.97' 111° 21 NM to fld. 920/1W.

669 B S4 FUEL 100LL, JET A NOTAM FILE DUH RWY 09-27: H4851X50 (ASPH) MIRL RWY 09: Thid dspicd 1298'. Trees.

FUEL 100LL NOTAM FILE LAN

09-27; PAPI and REIL Rwys 09 and 27-CTAF. Agricultural and

WHITE CLOUD (L) VOR/DME 117.6 HIC Chan 123 N43°34.49'

1300-2300Z‡. Deer on and invof arpt. Parallel two CLOSED indef. 4' fence 110' N side of rwy, Crops 50' S side of rwy in primary surface. ACTIVATE NSTD MIRL Rwy 09-27-CTAF.

AIRPORT REMARKS: Attended May-Sept 1300-0100Z‡, Oct-Apr

WEATHER DATA SOURCES: AWOS-3 119.175 (734) 856-1563.

RWY 27: Thid dspicd 1017'. Road.

COMMUNICATIONS: CTAF/UNICOM 122.7

WATERVILLE RCO 122.1R 113.1T (CLEVELAND RADIO) (R) TOLEDO APP/DEP CON 134 35

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

WATERVILLE (L) VOR/DME 113.1 VWV Chan 78 N41°27.09'

W83°38.32' 359° 17.1 NM to fld. 660/2W.

LANSING N42°43.05′ W84°41.86′ NOTAM FILE LAN.

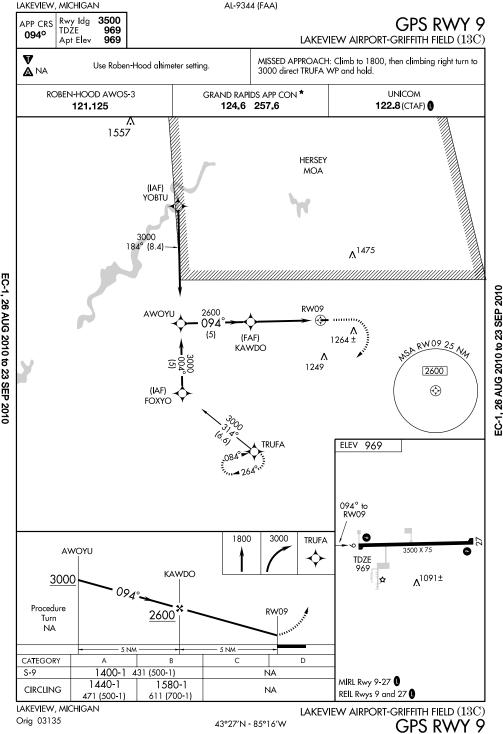
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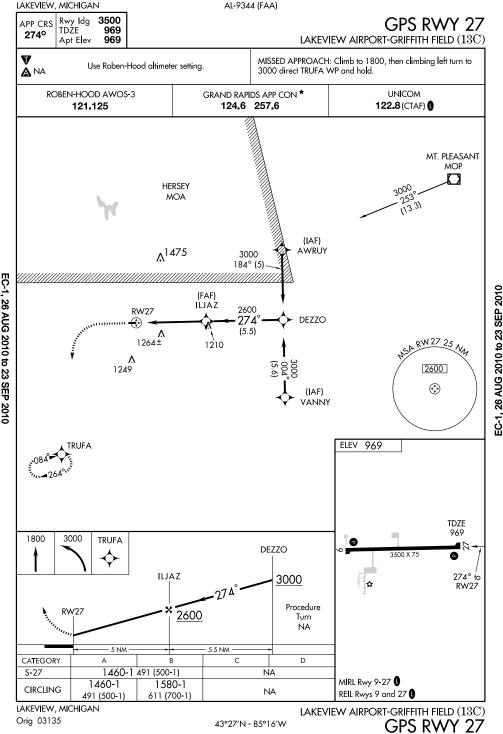
DETROIT

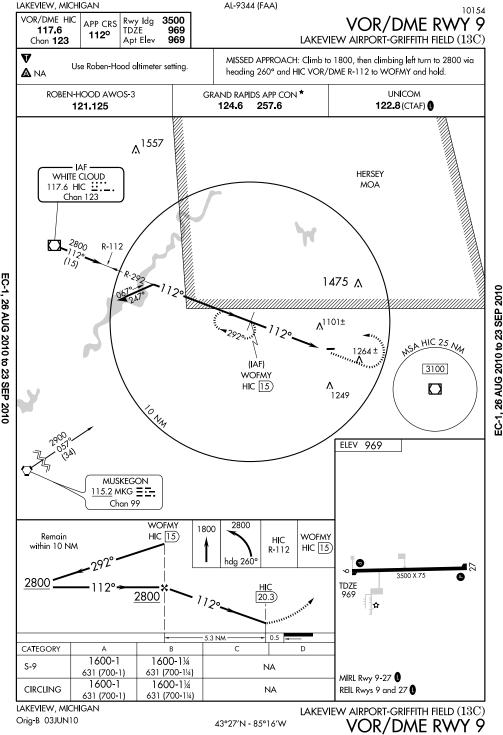
(L) VORTACW 110.8 LAN Chan 45 340° 3.8 NM to Abrams Muni, 887/5W.

VOR unusable 102°-158° blo 5000'. RCO 122.2 (LANSING RADIO)

H-5E, 10G, L-28J







LAKEVIEW ARPT-GRIFFITH FLD (13C) 1 NE UTC-5(-4DT) N43°27.13' W85°15.89'

assistant arpt manager on 616-527-0915. ACTIVATE MIRL Rwy

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CHICAGO

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DETROIT

L-28J

IAP

## LAMBERTVILLE TOLEDO SUBURBAN (DUH) 2 SW UTC-5(-4DT) N41°44.15′ W83°39.35′

В S4

RWY 09-27: H3500X75 (ASPH) S-12

COMMUNICATIONS: CTAF/UNICOM 122.8

RWY 09: REIL, PAPI(P2L)-GA 3.0° TCH 40', Trees. RWY 27: REIL, PAPI(P2L)-GA 3.0° TCH 50', Trees. AIRPORT REMARKS: Attended 1300Z±-dusk. For service after hrs call

Helicopter ops on grass area N of Rwv 09-27.

(R) GRAND RAPIDS APP/DEP CON 124.6 (1030-0500Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

R CHICAGO CENTER APP/DEP CON 128.5 (0500-1030Z±)

W85°42.97' 111° 21 NM to fld. 920/1W.

669 B S4 FUEL 100LL, JET A NOTAM FILE DUH RWY 09-27: H4851X50 (ASPH) MIRL RWY 09: Thid dspicd 1298'. Trees.

FUEL 100LL NOTAM FILE LAN

09-27; PAPI and REIL Rwys 09 and 27-CTAF. Agricultural and

WHITE CLOUD (L) VOR/DME 117.6 HIC Chan 123 N43°34.49'

1300-2300Z‡. Deer on and invof arpt. Parallel two CLOSED indef. 4' fence 110' N side of rwy, Crops 50' S side of rwy in primary surface. ACTIVATE NSTD MIRL Rwy 09-27-CTAF.

AIRPORT REMARKS: Attended May-Sept 1300-0100Z‡, Oct-Apr

WEATHER DATA SOURCES: AWOS-3 119.175 (734) 856-1563.

RWY 27: Thid dspicd 1017'. Road.

COMMUNICATIONS: CTAF/UNICOM 122.7

WATERVILLE RCO 122.1R 113.1T (CLEVELAND RADIO) (R) TOLEDO APP/DEP CON 134 35

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

WATERVILLE (L) VOR/DME 113.1 VWV Chan 78 N41°27.09'

W83°38.32' 359° 17.1 NM to fld. 660/2W.

LANSING N42°43.05′ W84°41.86′ NOTAM FILE LAN.

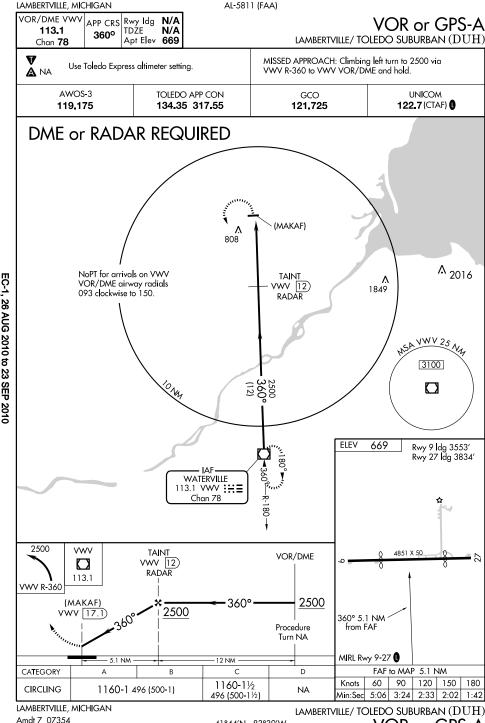
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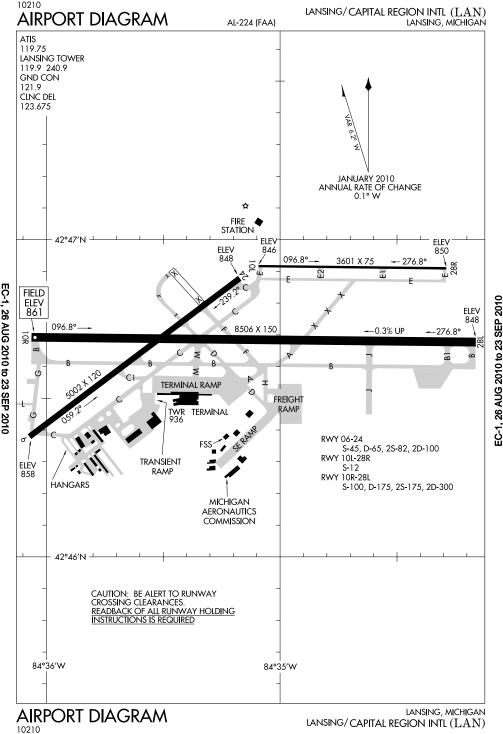
(L) VORTACW 110.8 LAN Chan 45 340° 3.8 NM to Abrams Muni, 887/5W.

VOR unusable 102°-158° blo 5000'. RCO 122.2 (LANSING RADIO)

H-5E, 10G, L-28J



VOR or GPS-A



LANSING

CAPITAL REGION INTL (LAN) 3 NW UTC-5(-4DT) N42°46.72′ W84°35.17′ S4 FUEL 100LL, JET A OX 1 AOE ARFF Index—See Remarks NOTAM FILE LAN

H-5E, 10G, L-28J

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L-28J

IAP

RWY 10R-28L: H8506X150 (ASPH-GRVD) S-100, D-175, 2S-175.

2D-300 HIRL RWY 10R: MALSR. RWY 28L: MALSR. RWY 06-24: H5002X120 (ASPH) S-45, D-65, 2S-82,

2D-100 MIRL RWY 06: REIL. PAPI(P4L)-GA 3.0° TCH 40'. Road.

RWY 24: REIL, PAPI(P4L)-GA 3.0° TCH 42', Trees. RWY 10L-28R: H3601X75 (ASPH) S-12

RWY 10L: Trees. RWY 28R: Road.

AIRPORT REMARKS: Attended continuously. Birds on and invof arpt.

Class I, ARFF Index B. ARFF index C avbl on request; call arpt manager 517-321-6121. Rwy 10L-28R not avbl to air carrier acft with more than 9 passenger seats. Twy A N of Rwy 28: Twys E and G not avbl to air carrier acft with more than 9 passenger seats. Ldg fee. Acft blo 6500 lbs exempt from ldg fee. Intl arrivals accepted up to 20 passenger seats. Flight Notification Service

(ADCUS) avbl. WEATHER DATA SOURCES: ASOS (517) 886-0015. LLWAS.

LANSING RCO 122.2 (LANSING RADIO) (R) LANSING APP/DEP CON 133.475 (North) 118.65 (South)

LANSING TOWER 119.9 GND CON 121.9 **CLNC DEL** 123.675 AIRSPACE: CLASS C svc continuous ctc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

COMMUNICATIONS: ATIS 119.75 UNICOM 122.95

LANSING FSS (LAN) on arpt.

LANSING (L) VORTACW 110.8 LAN Chan 45 N42°43.04′ W84°41.85′ 058° 6.1 NM to fld. 887/5W.

ILS 110.1 I-LAN Rwv 28L. ILS 111.7 I-CPQ Rwy 10R. Class ID. ILS unusable byd 25° left and right of course.

ASR

### **I APFFR** DUPONT-LAPEER (D95) 2 NE UTC-5(-4DT) N43°03.99' W83°16.31'

B S4 FUEL 100LL NOTAM FILE LAN RWY 18-36: H3800X75 (ASPH) MIRL RWY 18: REIL. PAPI(P4L)-GA 4.0° TCH 36'. Trees.

RWY 36: REIL. PAPI (P2L)-GA 4.0° TCH 33'. Trees.

RWY 09-27: 1900X150 (TURF) RWY 27: Trees. RWY 09: Thid dspicd 500'. Bldg. AIRPORT REMARKS: Attended 1300-2300Z‡, Arpt unattended

Christmas, New Year's, Easter Sun and Thanksgiving day. Rwy 09-27 CLOSED Nov thru Apr. Two center and S twy connectors clsd indef. Rwv 09-27 and dsplcd thld marked with 3' vellow cones. Rotating bcn opr dusk-0400Z‡. For rotating bcn after

0400Z± ACTIVATE-CTAF, ACTIVATE MIRL Rwv 18-36, PAPI Rwv 18 and Rwy 36 and REIL Rwy 18 and Rwy 36-CTAF. COMMUNICATIONS: CTAF/UNICOM 123.0 FLINT RCO 122.3 (LANSING RADIO)

(R) FLINT APP/DEP CON 128.55 (N/W of active rwy) 118.8 (E/S of active rwy) (1045-0430Z‡)

CLEVELAND CENTER APP/DEP CON 127.7 (0430-1045Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE FNT. FLINT (H) VORTACW 116.9 FNT Chan 116 N42°58.01'

(See ONAWAY)

W83°44.82' 079° 21.8 NM to fld. 772/6W.

COMM/NAV/WEATHER REMARKS: APP CON sectorization based upon Flint rwy usage. APP/DEP CON and CLNC DEL not available on the ground.

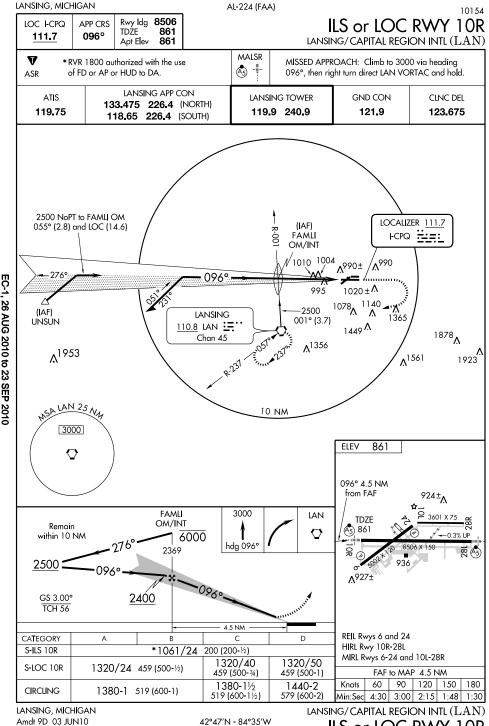
**LENAWEE CO** (See ADRIAN) LEO E. GOETZ CO

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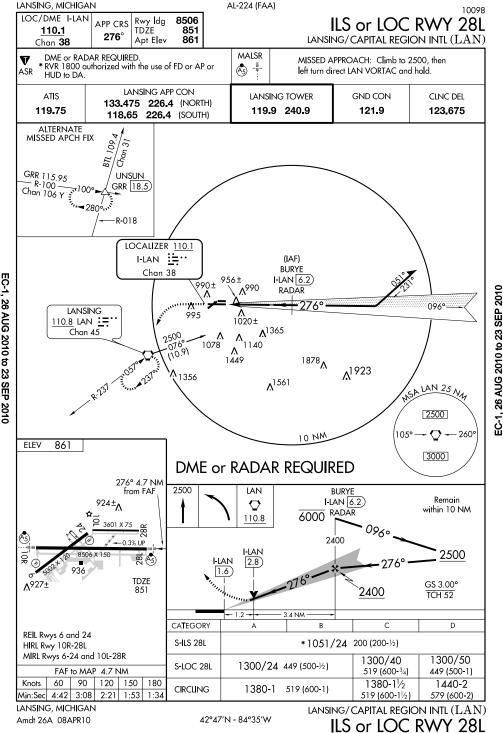
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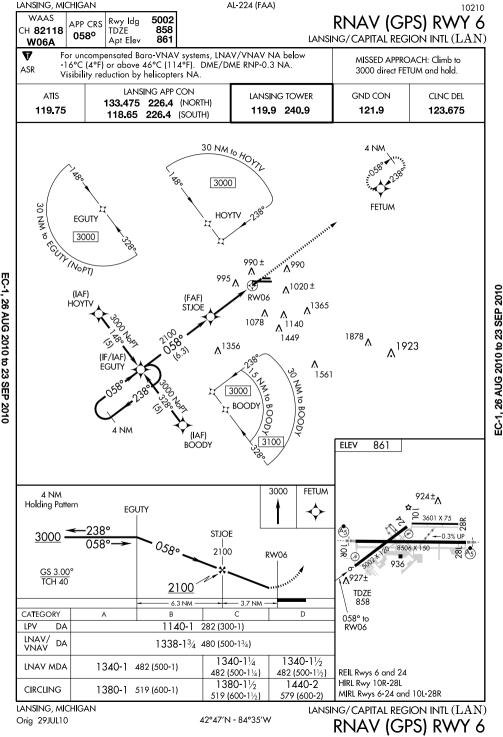
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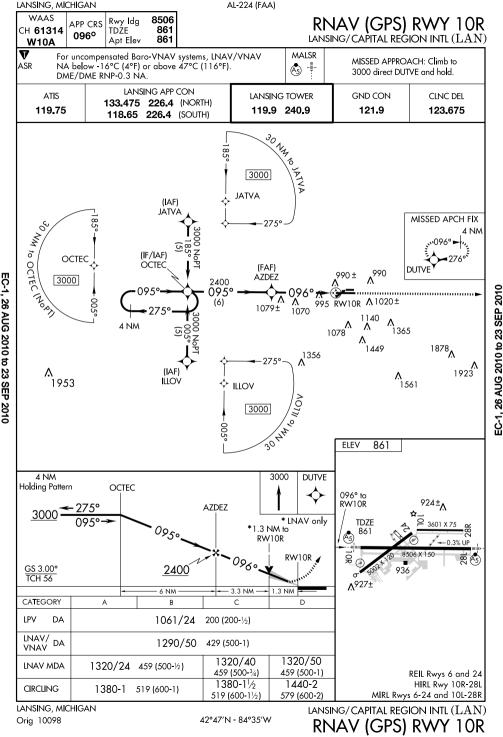
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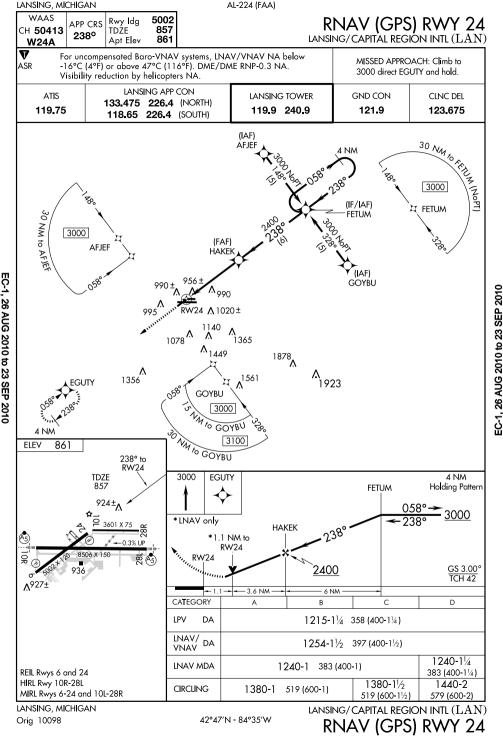


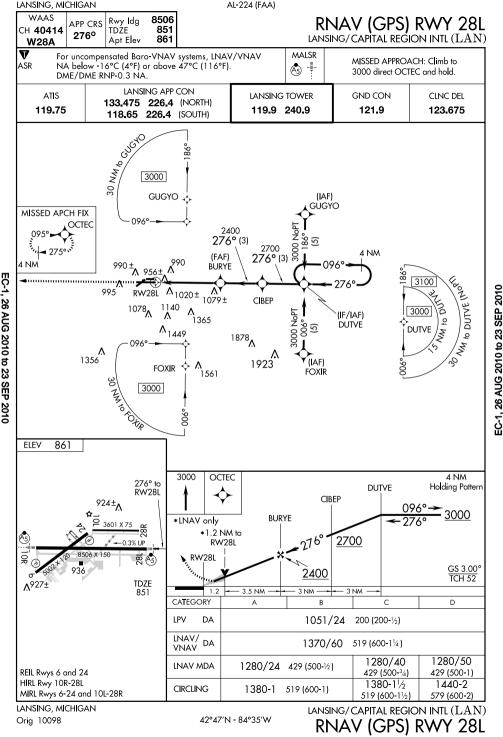
ILS or LOC

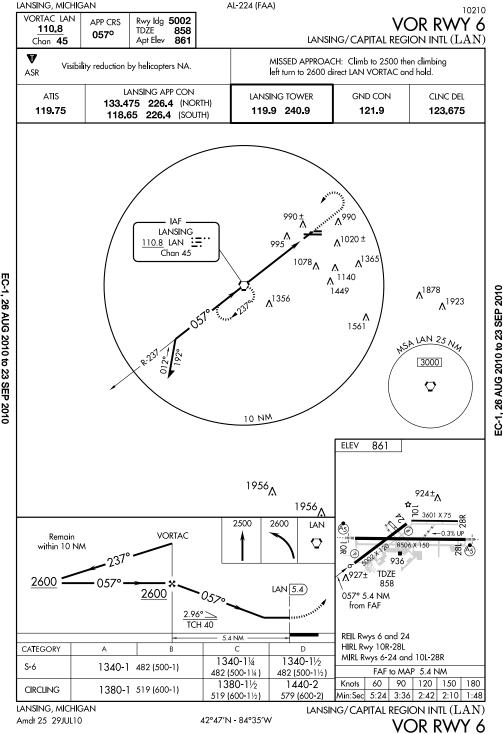


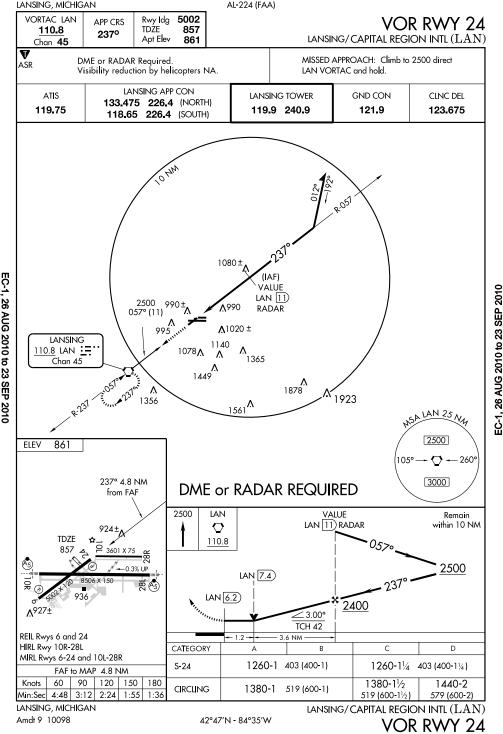












LANSING

CAPITAL REGION INTL (LAN) 3 NW UTC-5(-4DT) N42°46.72′ W84°35.17′ S4 FUEL 100LL, JET A OX 1 AOE ARFF Index—See Remarks NOTAM FILE LAN

H-5E, 10G, L-28J

IAP, AD

DETROIT

DETROIT

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L-28J

IAP

RWY 10R-28L: H8506X150 (ASPH-GRVD) S-100, D-175, 2S-175.

2D-300 HIRL RWY 10R: MALSR. RWY 28L: MALSR. RWY 06-24: H5002X120 (ASPH) S-45, D-65, 2S-82,

2D-100 MIRL RWY 06: REIL. PAPI(P4L)-GA 3.0° TCH 40'. Road.

RWY 24: REIL, PAPI(P4L)-GA 3.0° TCH 42', Trees. RWY 10L-28R: H3601X75 (ASPH) S-12

RWY 10L: Trees. RWY 28R: Road.

AIRPORT REMARKS: Attended continuously. Birds on and invof arpt.

Class I, ARFF Index B. ARFF index C avbl on request; call arpt manager 517-321-6121. Rwy 10L-28R not avbl to air carrier acft with more than 9 passenger seats. Twy A N of Rwy 28: Twys E and G not avbl to air carrier acft with more than 9 passenger seats. Ldg fee. Acft blo 6500 lbs exempt from ldg fee. Intl arrivals accepted up to 20 passenger seats. Flight Notification Service

(ADCUS) avbl. WEATHER DATA SOURCES: ASOS (517) 886-0015. LLWAS.

LANSING RCO 122.2 (LANSING RADIO) (R) LANSING APP/DEP CON 133.475 (North) 118.65 (South)

LANSING TOWER 119.9 GND CON 121.9 **CLNC DEL** 123.675 AIRSPACE: CLASS C svc continuous ctc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

COMMUNICATIONS: ATIS 119.75 UNICOM 122.95

LANSING FSS (LAN) on arpt.

LANSING (L) VORTACW 110.8 LAN Chan 45 N42°43.04′ W84°41.85′ 058° 6.1 NM to fld. 887/5W.

ILS 110.1 I-LAN Rwv 28L. ILS 111.7 I-CPQ Rwy 10R. Class ID. ILS unusable byd 25° left and right of course.

ASR

### **I APFFR** DUPONT-LAPEER (D95) 2 NE UTC-5(-4DT) N43°03.99' W83°16.31'

B S4 FUEL 100LL NOTAM FILE LAN RWY 18-36: H3800X75 (ASPH) MIRL RWY 18: REIL. PAPI(P4L)-GA 4.0° TCH 36'. Trees.

RWY 36: REIL. PAPI (P2L)-GA 4.0° TCH 33'. Trees.

RWY 09-27: 1900X150 (TURF) RWY 27: Trees. RWY 09: Thid dspicd 500'. Bldg. AIRPORT REMARKS: Attended 1300-2300Z‡, Arpt unattended

Christmas, New Year's, Easter Sun and Thanksgiving day. Rwy 09-27 CLOSED Nov thru Apr. Two center and S twy connectors clsd indef. Rwv 09-27 and dsplcd thld marked with 3' vellow cones. Rotating bcn opr dusk-0400Z‡. For rotating bcn after

0400Z± ACTIVATE-CTAF, ACTIVATE MIRL Rwv 18-36, PAPI Rwv 18 and Rwy 36 and REIL Rwy 18 and Rwy 36-CTAF. COMMUNICATIONS: CTAF/UNICOM 123.0 FLINT RCO 122.3 (LANSING RADIO)

(R) FLINT APP/DEP CON 128.55 (N/W of active rwy) 118.8 (E/S of active rwy) (1045-0430Z‡)

CLEVELAND CENTER APP/DEP CON 127.7 (0430-1045Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE FNT. FLINT (H) VORTACW 116.9 FNT Chan 116 N42°58.01'

(See ONAWAY)

W83°44.82' 079° 21.8 NM to fld. 772/6W.

COMM/NAV/WEATHER REMARKS: APP CON sectorization based upon Flint rwy usage. APP/DEP CON and CLNC DEL not available on the ground.

**LENAWEE CO** (See ADRIAN) LEO E. GOETZ CO

€3 C3 C3 03 C3 3601 X 75 잃 8506 X 150

03 03 03

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G<sup>G</sup>G

LAPEER, MICHIGAN AL-5446 (FAA) Rwy Idg VORTAC FNT N/A VOR-A APP CRS 116.9 TDŻE N/A 080° Apt Elev LAPEER/ DUPONT-LAPEER (D95)844 Chan 116 V MISSED APPROACH: Climbing left turn to 2500 via Use Flint altimeter setting. FNT R-080 to MIXED INT/FNT 16 DME and hold. A NA FLINT APP CON ★ UNICOM 118.8 257.9 123.0 (CTAF) ( ۸<sup>1300</sup> <sup>1085</sup>Λ 1207 IAF COLBA INT **FLINT** 116.9 FNT 👱 FNT 10 2500 Λ<sup>1156±</sup> <u>C</u>han 116 080 (6) MIXED INT R-080 EC-1, 26 AUG 2010 to 23 SEP 2010 FNT [16] 3000 080 (10) NSA FNT 25 NA 1849 3100 ELEV 844 Rwy 9 ldg 1400' Λ<sup>930 ±</sup> PONTIAC CAUTION: NE/SW drag strip 940 ±∧ 111.0 PSI :--2 miles North of Airport. Chan 47 2500 COLBA INT MIXED FNT [10] MIXED INT INT FNT [16] 3000 **FNT R-080** 080° 116.9 1900 X 150 0 **FNT** 930±<sup>Λ</sup> 2500 21.6 Procedure Turn 36 080° 5.6 NM NA from FAF MIRL Rwy 18-36 REIL Rwy 18 and 36 ( 6 NM 5.6 NM FAF to MAP 5.6 NM CATEGORY Α В D 1460-1 1460-11/4 1460-134 Knots 60 90 120 150 180 CIRCLING NA 5:36 1:52 616 (700-1) 616 (700-11/4) Min:Sec 3:44 2:48 2:14 616 (700-1%) LAPEER, MICHIGAN LAPEER / DUPONT-LAPEER (D95)Orig 07242 43°04'N - 83°16'W

# LINDEN

**PRICES** 

(9G2) 1 S

09-27 and REIL Rwv 09-CTAF.

S2

RWY 09-27: H4000X75 (ASPH) MIRL 0.3% up W RWY 09: REIL. Thid dspicd 268'. Trees. RWY 27: Thid dsplcd 800'. Trees. AIRPORT REMARKS: Attended irregularly, Deer and birds on and invof arpt. Airframe repairs: prior arrangement. ACTIVATE MIRL Rwy

FIIFI 100LL

UTC-5(-4DT) N42°48.46′ W83°46.20′

NOTAM FILE LAN

COMMUNICATIONS: CTAF/UNICOM 123.0 FLINT RCO 122.3 (LANSING RADIO) R FLINT APP/DEP CON 128.55 (N/W of active rwy) 118.8 (E/S of active rwy) (1045-0430Z‡)

CLEVELAND CENTER APP/DEP CON 126.75 (0430-1045Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE FNT. FLINT (H) VORTACW 116.9 FNT Chan 116 N42°58.01'

W83°44.82' 193° 9.6 NM to fld. 772/6W. COMM/NAV/WEATHER REMARKS: APP CON sectorization based upon Flint rwy usage.

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LITCHFIELD N42°03.75′ W84°45.91′ NOTAM FILE LAN.

(L) VOR/DME 111.2 LFD Chan 49 141° 11.7 NM to Hillsdale Muni, 1040/05W. DME unusable 110°-165° byd 35 NM below 3000'. RCO 122.1R 111.2T (LANSING RADIO)

DETROIT

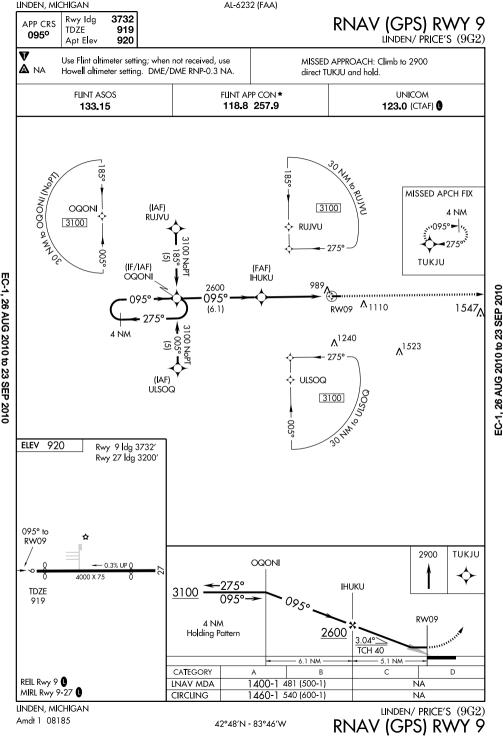
COPTER

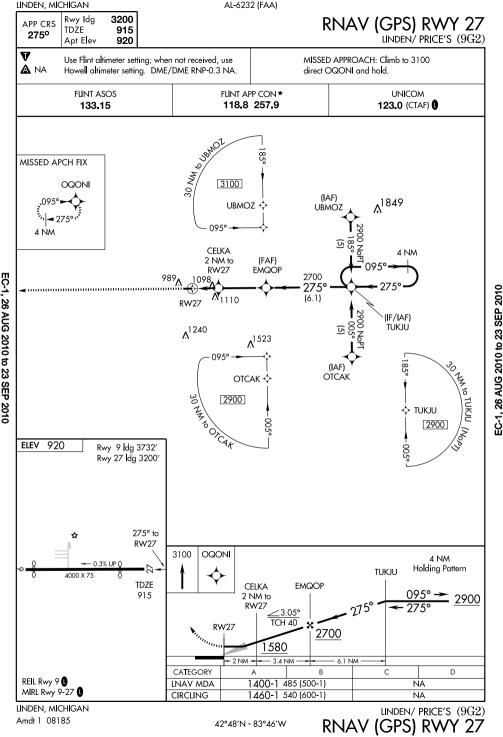
L-28J IAP

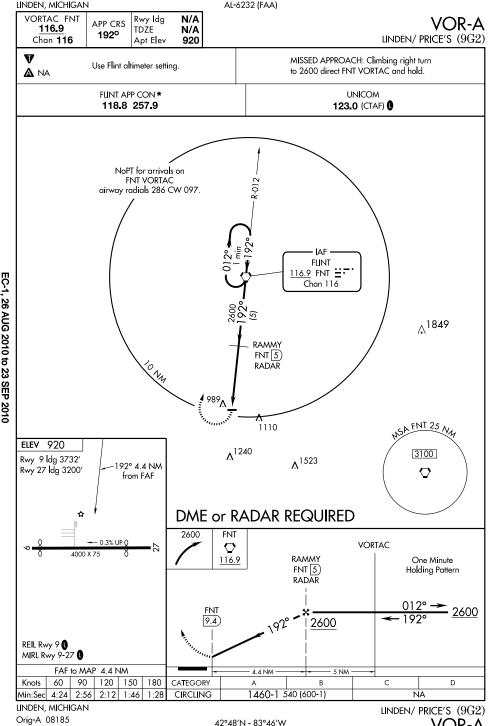
DETROIT H-5E, 10G, L-28J

LIVINGSTON CO SPENCER J. HARDY

(See HOWELL) LOST CREEK (See LUZERNE)







Orig-A 08185

LOWELL CITY (24C) UTC-5(-4DT) N42°57.24′ W85°20.64′ 1 N CHICAGO 681 S4 FUEL 100LL NOTAM FILE LAN RWY 06-24: 2700X100 (TURF) RWY 06: Thid dspicd 1100'. Trees. RWY 24: Thid dspicd 1200'. Trees. RWY 12-30: H2394X48 (ASPH) RWY 12: Thid dspicd 603'. Tree. RWY 30: Thid dspicd 597'. Tree. RWY 15-33: 1940X100 (TURF) RWY 15: Thid dspicd 582'. Tree. RWY 33: Thid dsplcd 388'. Tree. AIRPORT REMARKS: Attended Apr-Oct Mon-Fri 1230-2200Z‡, Nov-Mar Mon-Fri 1300-2100Z‡. Snow removal Rwy 12-30 only. Rwy 12-30 extensive cracking length rwy. ACTIVATE LIRL Rwy 12-30—CTAF. Rwy 15-33 and dsplcd thids marked with three 3' vellow cones. Rwy 06-24 and dsplcd thids marked with 3' vellow cones. COMMUNICATIONS: CTAF/UNICOM 123 O HICE CO (See NEWBERRY) **LUDINGTON** N43°57.77′ W86°24.57′ NOTAM FILE LDM. CHICAGO NDB (MHW) 341 LDM L-281 at Mason Co. RCO 122.45 (LANSING RADIO) LUDINGTON MASON CO (LDM) 2 NE UTC-5(-4DT) N43°57.75′ W86°24.48′ CHICAGO S4 FUEL 100LL, JET A NOTAM FILE LDM H-2K, L-281 RWY 08-26: H5003X75 (ASPH-PFC) S-25 MIRL IAP RWY 08: PAPI(P2L)-GA 3.0° TCH 28'. Trees. RWY 26: REIL. PAPI(P4L)—GA 3.0° TCH 43'. Trees. RWY 01-19: H3503X75 (ASPH-PFC) S-19 MIRL RWY 01: PAPI(P2L). RWY 19: PAPI(P2L). Trees. AIRPORT REMARKS: Attended Apr-May 1300-2200Z‡, Oct-Mar Mon-Fri 1400-2200Z‡ and Sat-Sun 1300-2200Z‡, Jun-Aug 1300-0100Z±. Sep 1300-2200Z±. Birds and deer on and invof arpt. ACTIVATE MIRL Rwy 08-26 and Rwy 01-19 PAPI Rwy 08, (3 (3 Rwy 26, Rwy 01 and Rwy 19, and REIL Rwy 26-CTAF. WEATHER DATA SOURCES: AWOS-3 119.925 (231) 843-0459. COMMUNICATIONS: CTAF/UNICOM 123.0 MANISTEE RCO 122.1R 111.4T (LANSING RADIO) LUDINGTON RCO 122.45 (LANSING RADIO) MINNEAPOLIS CENTER APP/DEP CON 120.85 RADIO AIDS TO NAVIGATION: NOTAM FILE MBI a a a C3 C3 €3 MANISTEE (L) VOR/DME 111.4 MBL Chan 51 N44°16.24' 63 W86°15.24' 205° 19.6 NM to fld. 618/5W.

MICHIGAN

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## I II7FRNF

LOST CREEK

LDM N43°57.77′ W86°24.57′

(5Y4) 3 NE UTC-5(-4DT) N44°39.60′ W84°14.25′

1051 NOTAM FILE LAN

LUDINGTON NDB (MHW) 341

fld. NOTAM FILE LDM.

thlds marked with 3' yellow cones.

RWY 18-36: 2600X100 (TURF)

RWY 18: Thid dspicd 440'. Trees. RWY 36: Thid dspicd 715'. Trees. RWY 05-23: 2200X100 (TURF)

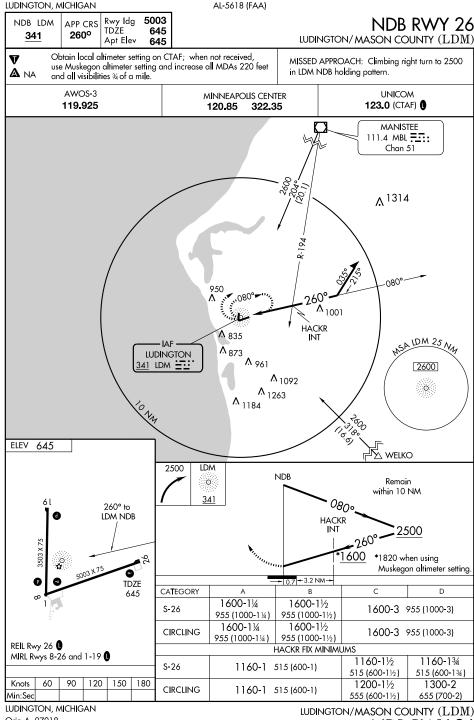
RWY 05: Thid dspicd 200'. Trees. RWY 23: Thid dspicd 415'. Trees.

LAKE HURON

AIRPORT REMARKS: Unattended. Arpt CLOSED Nov 14-Apr 15 and when snow covered. Remote ctl model acft ops S

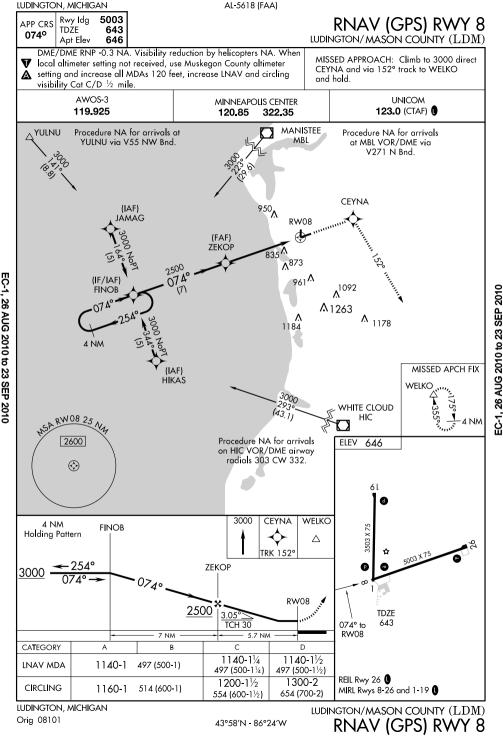
end Rwy 05-23. Deer on and invof arpt. Rwy 36 first 200' soft sand. Rwy 05-23 and Rwy 18-36 and dsplcd

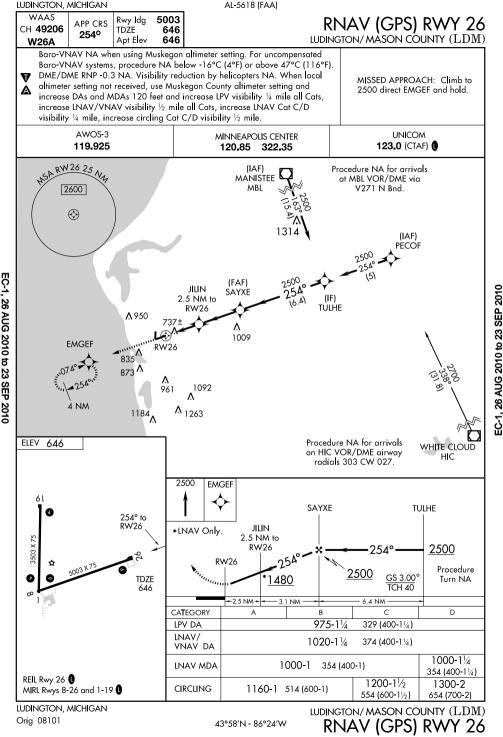
**COMMUNICATIONS: CTAF 122.9** MACKINAC CO (See ST IGNACE)



Orig-A 07018

EC-1, 26 AUG 2010 to 23 SEP 2010





MICHIGAN 177 MACKINAC ISLAND (MCD) 1 NW UTC-5(-4DT) N45°51.90′ W84°38.24′ LAKE HIIRON 739 B TPA-1900 (1159) NOTAM FILE MCD L-31B RWY 08-26: H3500X75 (ASPH) S-13 MIRL 0.4% up NE IAP RWY 08: REIL, PAPI(P4L)-GA 3.0° TCH 25', Trees. RWY 26: REIL, PAPI(P4L)—GA 3.5° TCH 34', Trees. AIRPORT REMARKS: Attended 1300-2200Z‡, Noise abatement procedures: Tfc pattern altitude 1900' MSL; climb to 1900' MSL before turning; avoid flight over shore and town; no touch and go ldgs. Birds on and invof arpt. Flocks of seagulls invof landfill 0.3 miles NE. Rwy 08-26 slopes up from E to W. Ldg fee. ACTIVATE MIRL Rwy 08-26 and PAPI Rwys 08 and 26 and REIL Rwys 08 and 26-122.8. WEATHER DATA SOURCES: AWOS-3 118.275 (906) 847-3778. COMMUNICATIONS: CTAF/UNICOM 122.7 (R) MINNEAPOLIS CENTER APP/DEP CON 134.6 RADIO AIDS TO NAVIGATION: NOTAM FILE PLN. G G PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84" G G W84°39.85' 011° 14.1 NM to fld. 840/6W. HIWAS. COMM/NAV/WEATHER REMARKS: AWOS-3 visibility unreliable. MACKINAC ISLAND N45°53 48' W84°44 09' LAKE HURON RCO 122.35 (GREEN BAY RADIO) at Mackinac Co. L-31B MADDS N42°29.69′ W83°05.60′ NOTAM FILE DET. DETROIT NDB (LOM) 338 DE 149° 6.3 NM to Coleman A. Young Muni. Unmonitored. MAIDENS (See WILLIAMSTON) CHICAGO

at Manistee Co-Blacker. 618/5W. AWOS-3.

VOR unusable 140°-165° byd 20 NM below 5000'. DME unusable 320°-070° byd 20 NM below 3000'.

MALLY N42°07.61′ W86°18.80′

NOTAM FILE BEH. NDB (LOM) 397 BE 274° 5.1 NM to Southwest Michigan Rgnl. Unmonitored.

MANCELONA MUNI

2 N UTC-5(-4DT) N44°55.50′ W85°04.00′ (D9Ø)

1133 NOTAM FILE LAN RWY 18-36: 3400X140 (TURF) RWY 18: Trees. RWY 36: Tree.

RWY 10-28: 2050X120 (TURF) RWY 10: Thid dspicd 830'. Trees. RWY 28: Thid dspicd 200'. Tree. AIRPORT REMARKS: Unattended. Arpt CLOSED when snow covered and Nov thru Apr 15 rwys not plowed. Rwy 18-36

marked with 3' yellow cones. Rwy 10-28 marked with tires.

**COMMUNICATIONS: CTAF 122.9** 

MANCHESTER

(L) VOR/DME 111.4 MBL Chan 51

RCO 122 1R 111 4T (LANSING RADIO)

1005 NOTAM FILE LAN RWY 18-36: 2480X100 (TURF) LIRL (NSTD) RWY 18: Trees.

MANISTEE N44°16.24′ W86°15.24′. NOTAM FILE MBL.

ROSSETTIE (75G) 3 N UTC-5(-4DT) N42°11.70′ W84°01.85′

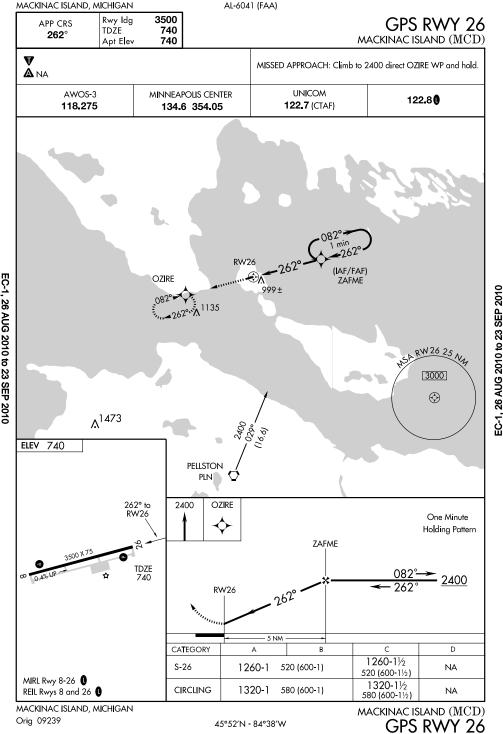
RWY 36: Thid dspicd 665', Road, Rgt tfc. AIRPORT REMARKS: Attended irregularly. Field gets muddy in spring. Rwy on rolling terrain. Rwy 18-36 NSTD LIRL due to spacing. Rwy 18-36 marked with 2' yellow cones and painted tires. COMMUNICATIONS: CTAF 122.9

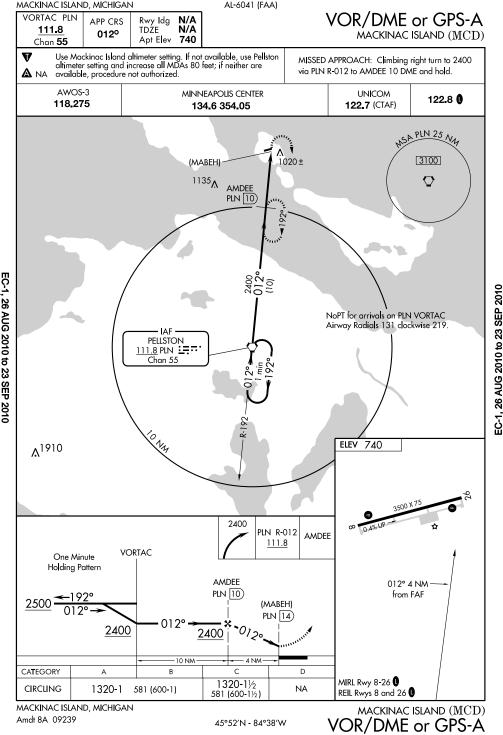
**GREEN BAY** 

DETROIT COPTER

**GREEN BAY** 

L-28I, 31B





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### **MICHIGAN**

MANISTEE CO-BLACKER (MBL) 3 NE UTC-5(-4DT) N44°16.35′ W86°14.81′

1300-2200Z±. Deer and birds on and invof arpt. ARFF unavbl exc air carrier, others 24 hr PPR 231-723-4351, ARFF monitoring CTAF during air carrier ops. Part 139 certified for scheduled air carriers 10-30 seats only. Unscheduled air carriers over 30 seats not authorized. Maintenance personnel monitoring CTAF during work on twys and rwys. Twys marked with reflectors. ACTIVATE HIRL Rwv 09-27 and MIRL Rwv 18-36, REIL Rwv 09, PAPI Rwvs

JEPOT NDB (LOM) 254 MB N44°16.25′ W86°08.57′ 276° 4.5NM to fld.

S-26 D-45

(ISQ) 3 NE UTC-5(-4DT) N45°58.48′ W86°10.31′

WEATHER DATA SOURCES: AWOS-3 111.4 MBL (231) 723-6073.

(I) VOR/DMF 111 4 MBI Chan 51 N44°16 24' W86°15.24' at fld. 618/5W. AWOS-3.

Rwv 27.

FUEL 100LL, JET A NOTAM FILE ISO

RWY 19: Trees. AIRPORT REMARKS: Attended Mon-Fri 1200-22007±, Sat-Sun 1330-2300Z‡. For arpt attendance call 906-341-5522 during attendance hrs: or 906-341-0515 after hours (manager residence). Birds and deer on and invof arpt. Rwy 19 +100' unmarked p-line 1 mile north of rwy end. Rwy 10 PAPI OTS indef. ACTIVATE MIRL Rwv 10-28 and PAPI Rwv 10 and Rwv 28 and REIL

Rwy 28-CTAF. Rwy 28 south side REIL OTS indef.

(L) VORW/DME 110.4 ISO Chan 41 N45°58.58' W86°10.41' at fld. 680/5W. AWOS-3.

WEATHER DATA SOURCES: AWOS-3 110.4 ISO (906) 341-8585.

RWY 10: PAPI(P2L)-GA 3.0° TCH 35'. Trees. RWY 28: REIL, PAPI(P2L)-GA 3.0° TCH 38', Trees. RWY 01-19: H2501X50 (ASPH) S-26, D-45

RWY 27: MALSR PAPI(P4L)—GA 3 0° TCH 45' Trees RWY 18-36: H2721X75 (ASPH) S-12.5 MIRL

09. 18. 27 and 36-CTAF.

ILS 108.35 I-MBL

RWY 10-28: H5001X100 (ASPH)

COMMUNICATIONS: CTAF/UNICOM 122.8 RCO 122.25 (GREEN BAY RADIO) RADIO AIDS TO NAVIGATION: NOTAM FILE ISO.

SCHOOLCRAFT CO

RWY 01: Trees.

MAPLE GROVE

COMMUNICATIONS: CTAF/UNICOM 122.8 RCO 122.1R 111.4T (LANSING RADIO) RADIO AIDS TO NAVIGATION: NOTAM FILE MBL.

621 B S2 FUEL 100LL. JET A Class III, ARFF Index A NOTAM FILE MBL

LOM JEPOT NDB. Unmonitored 0100-1300Z±.

H-2K, L-28I, 31B ΙΔΡ

GREEN RAY

RWY 09-27: H5500X100 (ASPH) S-26, D-31

RWY 09: REIL, PAPI(P4L)—GA 3.0° TCH 30', Tree.

RWY 18: PAPI(P2L)-GA 4.0° TCH 30'. Trees.

RWY 36: PAPI(P2L)-GA 4.0° TCH 26'. Tree. AIRPORT REMARKS: Attended Apr-Oct 1300-0100Z± Nov-Mar

**MANISTIQUE** 

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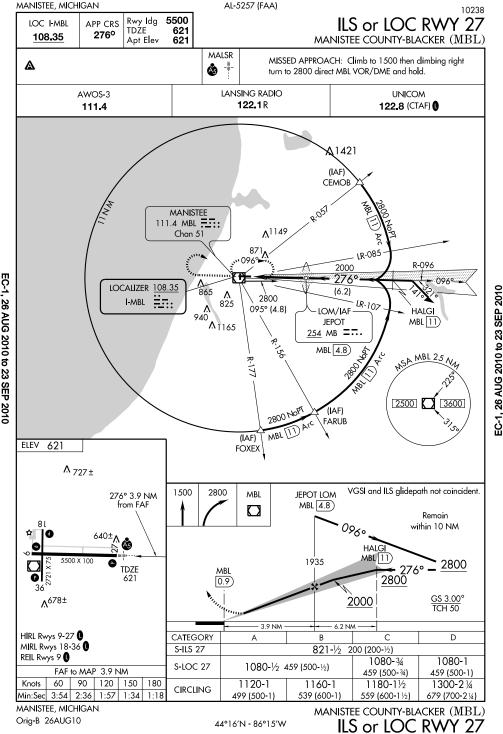
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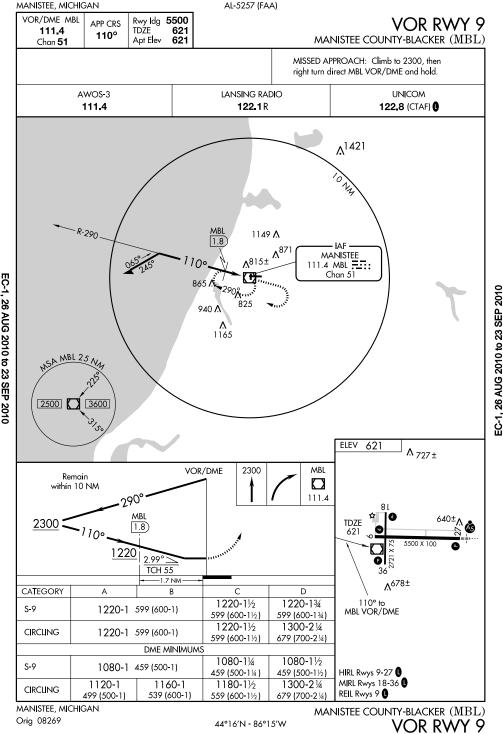
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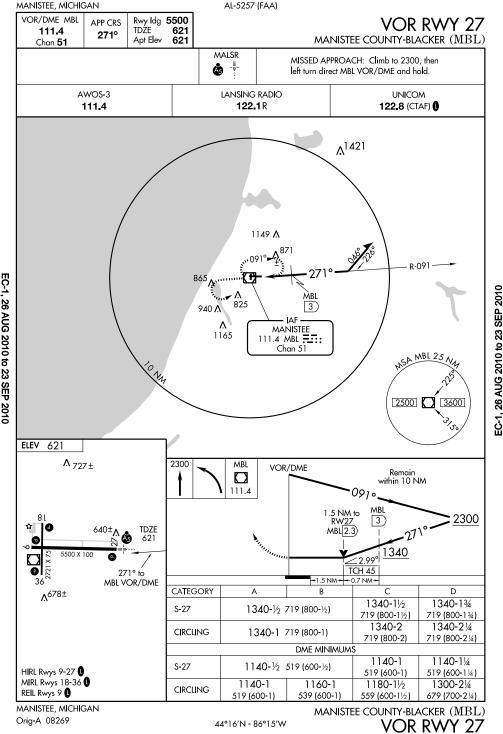
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**GREEN BAY** H-2K, L-31B IAP

### (See FOWLERVILLE) MARE GROVE HELIPORT (See FOWLERVILLE)







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### **MICHIGAN**

MANISTEE CO-BLACKER (MBL) 3 NE UTC-5(-4DT) N44°16.35′ W86°14.81′

1300-2200Z±. Deer and birds on and invof arpt. ARFF unavbl exc air carrier, others 24 hr PPR 231-723-4351, ARFF monitoring CTAF during air carrier ops. Part 139 certified for scheduled air carriers 10-30 seats only. Unscheduled air carriers over 30 seats not authorized. Maintenance personnel monitoring CTAF during work on twys and rwys. Twys marked with reflectors. ACTIVATE HIRL Rwv 09-27 and MIRL Rwv 18-36, REIL Rwv 09, PAPI Rwvs

JEPOT NDB (LOM) 254 MB N44°16.25′ W86°08.57′ 276° 4.5NM to fld.

S-26 D-45

(ISQ) 3 NE UTC-5(-4DT) N45°58.48′ W86°10.31′

WEATHER DATA SOURCES: AWOS-3 111.4 MBL (231) 723-6073.

(I) VOR/DMF 111 4 MBI Chan 51 N44°16 24' W86°15.24' at fld. 618/5W. AWOS-3.

Rwv 27.

FUEL 100LL, JET A NOTAM FILE ISO

RWY 19: Trees. AIRPORT REMARKS: Attended Mon-Fri 1200-22007±, Sat-Sun 1330-2300Z‡. For arpt attendance call 906-341-5522 during attendance hrs: or 906-341-0515 after hours (manager residence). Birds and deer on and invof arpt. Rwy 19 +100' unmarked p-line 1 mile north of rwy end. Rwy 10 PAPI OTS indef. ACTIVATE MIRL Rwv 10-28 and PAPI Rwv 10 and Rwv 28 and REIL

Rwy 28-CTAF. Rwy 28 south side REIL OTS indef.

(L) VORW/DME 110.4 ISO Chan 41 N45°58.58' W86°10.41' at fld. 680/5W. AWOS-3.

WEATHER DATA SOURCES: AWOS-3 110.4 ISO (906) 341-8585.

RWY 10: PAPI(P2L)-GA 3.0° TCH 35'. Trees. RWY 28: REIL, PAPI(P2L)-GA 3.0° TCH 38', Trees. RWY 01-19: H2501X50 (ASPH) S-26, D-45

RWY 27: MALSR PAPI(P4L)—GA 3 0° TCH 45' Trees RWY 18-36: H2721X75 (ASPH) S-12.5 MIRL

09. 18. 27 and 36-CTAF.

ILS 108.35 I-MBL

RWY 10-28: H5001X100 (ASPH)

COMMUNICATIONS: CTAF/UNICOM 122.8 RCO 122.25 (GREEN BAY RADIO) RADIO AIDS TO NAVIGATION: NOTAM FILE ISO.

SCHOOLCRAFT CO

RWY 01: Trees.

MAPLE GROVE

COMMUNICATIONS: CTAF/UNICOM 122.8 RCO 122.1R 111.4T (LANSING RADIO) RADIO AIDS TO NAVIGATION: NOTAM FILE MBL.

621 B S2 FUEL 100LL. JET A Class III, ARFF Index A NOTAM FILE MBL

LOM JEPOT NDB. Unmonitored 0100-1300Z±.

H-2K, L-28I, 31B ΙΔΡ

GREEN RAY

RWY 09-27: H5500X100 (ASPH) S-26, D-31

RWY 09: REIL, PAPI(P4L)—GA 3.0° TCH 30', Tree.

RWY 18: PAPI(P2L)-GA 4.0° TCH 30'. Trees.

RWY 36: PAPI(P2L)-GA 4.0° TCH 26'. Tree. AIRPORT REMARKS: Attended Apr-Oct 1300-0100Z± Nov-Mar

**MANISTIQUE** 

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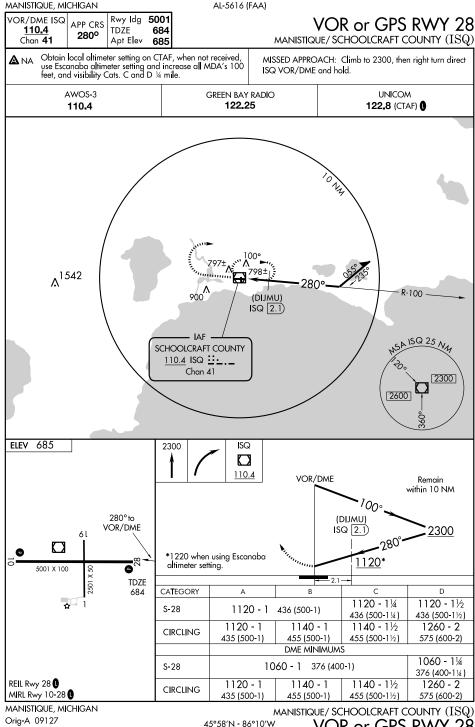
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**GREEN BAY** H-2K, L-31B IAP

### (See FOWLERVILLE) MARE GROVE HELIPORT (See FOWLERVILLE)



VOR or GPS RWY 28

DETROIT L-30F

### **MICHIGAN**

FUEL 100LL. JET A TPA-1413(800) NOTAM FILE LAN

MARINE CITY (76G) 4 W UTC-5(-4DT) N42°43.25′ W82°35.75′

RWY 04: REIL. PAPI(P2L)-GA 4.0° TCH 25'. P-line.

RWY 22: PAPI(P2L)—GA 4.0° TCH 25'. Thid dsplcd 295'. Brush.

AIRPORT REMARKS: Attended continuously, Rwy 04-22 NSTD MIRL lctd 23' from rwy edge.

RWY 04-22: H3100X60 (ASPH) MIRL (NSTD)

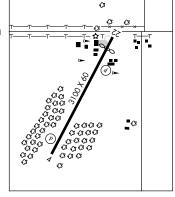
COMMUNICATIONS: CTAF/UNICOM 123.0

613 B

MARLETTE

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN

PECK (H) VORTAC 114.0 ECK Chan 87 N43°15.36' W82°43.08' 177° 32.5 NM to fld. 810/7W. HIWAS.



S4 FUEL 100LL NOTAM FILE LAN

RWY 09-27: H3796X75 (ASPH) MIRL (NSTD)

RWY 09: PAPI(P4R)-GA 3.0° TCH 20'. Trees. RWY 27: REIL. PAPI(P4R)-GA 3.0° TCH 20'. Trees.

(77G)

RWY 01-19: H3497X75 (ASPH) MIRL 0.7% up N

RWY 01: PAPI(P4L)-GA 3.0° TCH 20'. RWY 19: PAPI(P4L)-GA 3.0° TCH 20'. Trees.

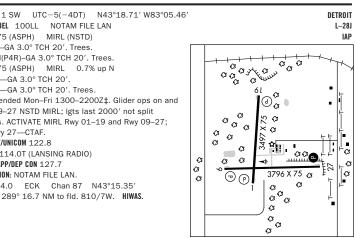
AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡, Glider ops on and invof arpt, Rwv 09-27 NSTD MIRL: Igts last 2000' not split amber/white lens. ACTIVATE MIRL Rwy 01-19 and Rwy 09-27;

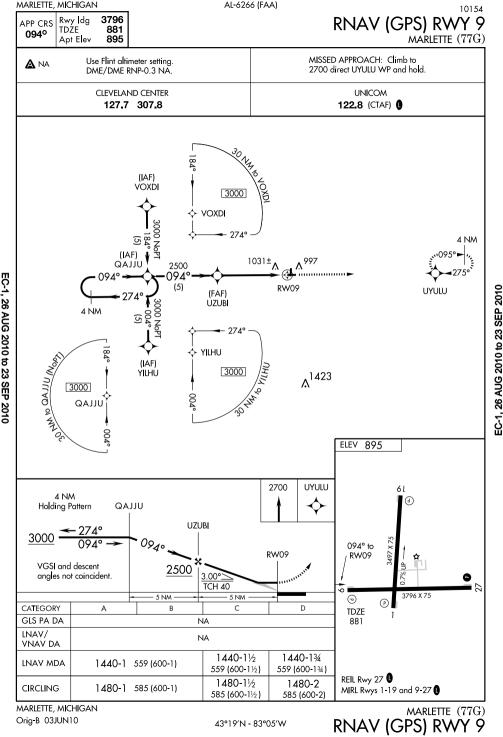
PAPI and REIL Rwv 27-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8 PECK RCO 122.1R 114.0T (LANSING RADIO)

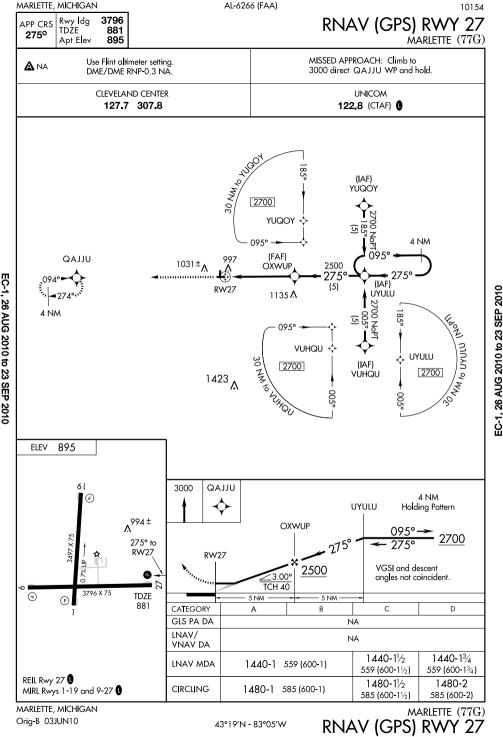
(R) CLEVELAND CENTER APP/DEP CON 127.7 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

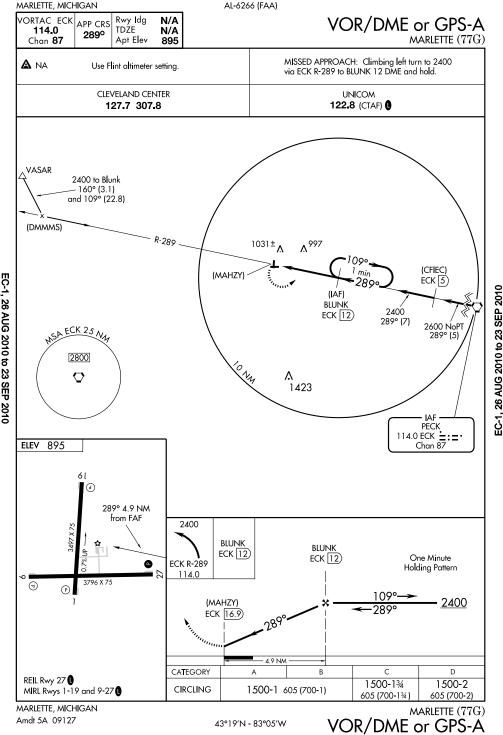
PECK (H) VORTAC 114.0 ECK Chan 87 N43°15.35'

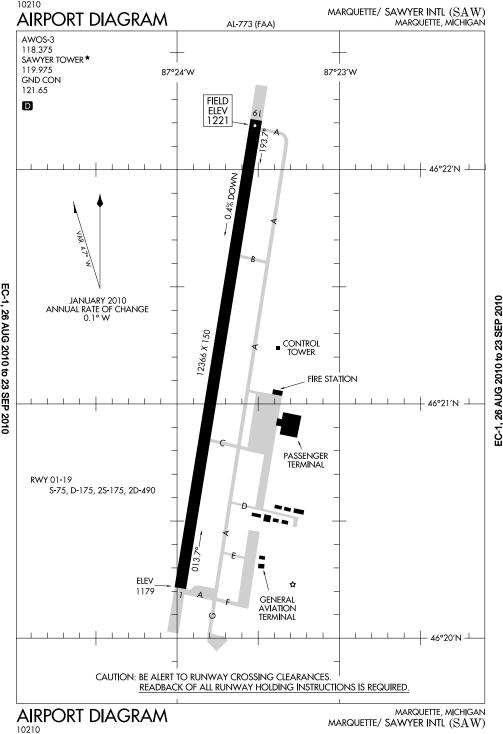
W82°43.08' 289° 16.7 NM to fld. 810/7W. HIWAS.











180 **MICHIGAN** 

## **MARQUETTE**

SAWYER INTL (SAW) 17 S UTC-5(-4DT) N46°21.22′ W87°23.72′

1221 B S4 FUEL 100LL, JET A OX 1.2 LRA ARFF Index—See Remarks

S-75, D-175, 2S-175, 2D-490

**GREEN BAY** 

H-2J, L-31A IAP. AD

NOTAM FILE SAW

3 3 3 3

**3 3** 

03 C3

C3 C3

CO

HIRL

<sup>12366</sup> X 150

(P

RWY 19: REIL. PAPI(P4L)—GA 3.0° TCH 62'. 0.4% down

RUNWAY DECLARED DISTANCE INFORMATION

RWY 01-19: H12366X150 (ASPH-CONC-GRVD)

RWY 01: MALSR. PAPI(P4L)-GA 3.0° TCH 66'.

RWY 01: TORA-12366 TODA-12366 ASDA-12366 LDA-12366 RWY 19: TORA-12366 TODA-12366 ASDA-12366 LDA-12366 AIRPORT REMARKS: Attended 1000-0100Z‡. For svc after hrs call 906-222-3062 (pager). Fuel avbl 24 hrs with credit card. multi-svc and av card. Self svc fuel located adjacent FBO ramp.

FBO syc after hrs contact 906-222-3062. Birds and deer on and invof arpt, PAEW on arpt monitor 119,975 (CTAF), Class I, ARFF Index D avbl. Call arpt mgr at 906-458-6336 to confirm availability of personnel and equipment. Air carrier ops involving acft with more than 30 passenger seats are not authorized in excess of 15 minutes before or after scheduled arrival/dep times without prior coordination with arpt manager, 48 hrs prior to unscheduled air carrier operations with more than 30 passenger seats call arpt manager 906-458-6336. General aviation and

charter acft parking avbl at general aviation terminal only, lctd SE

corner of arpt. North entrance to air carrier ramp, south of ARFF/SRE building, closed Nov-Mar. S half of air carrier terminal ramp not plowed Oct-Apr. Frequent snow removal ops in progress various times Oct-Apr. Monitor CTAF. Twy A north of Twy C clsd

15 Nov-15 Apr. Twy B clsd 15 Nov-15 Apr. Twy G clsd 15 Nov-15 Apr. North air carrier ramp entrance/exit clsd 15 Nov-15 Apr. ACTIVATE HIRL Rwy 01-19, MALSR Rwy 01 and REIL Rwy 19-119.975. All lighting pilot controlled CTAF 119.975 when ATCT closed, Rwv 01-19 75' paved shoulders each side, Ramp fees in effect,

Ramp fees may be waived with fuel purchase. FBO svc after hrs ctc 906-222-3062 (pager). WEATHER DATA SOURCES: AWOS-3 118.375 (906) 346-5126.

COMMUNICATIONS: CTAF 119.975 UNICOM 122.7

SAWYER RCO 123.6 (GREEN BAY RADIO)

(R) MINNEAPOLIS CENTER APP/DEP CON 119.1 SAWYER TOWER 119.975 (1100-0300Z±)

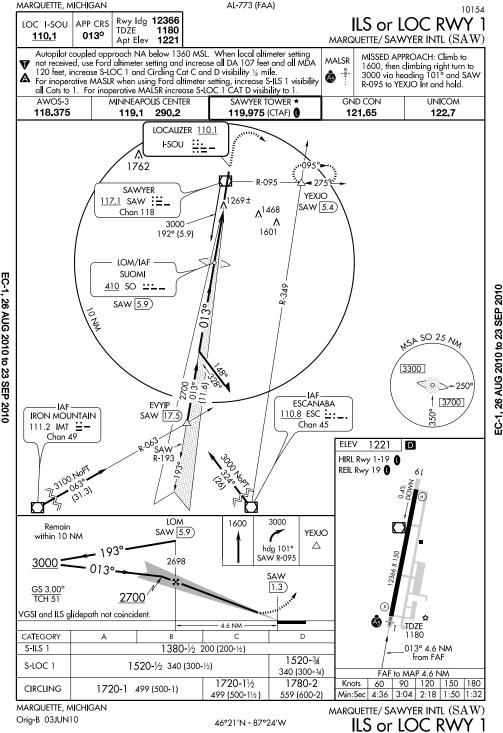
**GND CON 121.65** AIRSPACE: CLASS D svc 1100-0300Z‡ other times CLASS E.

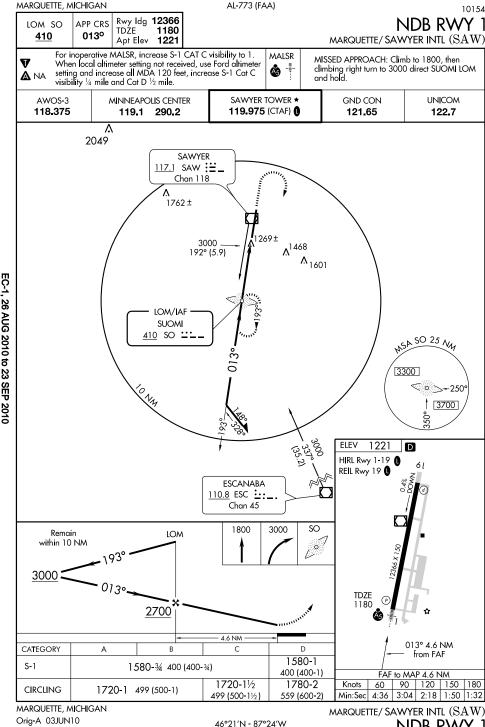
RADIO AIDS TO NAVIGATION: NOTAM FILE SAW. (H) VORW/DME 117 1

SAW Chan 118 N46°21.54′ W87°23.85′ at fld. 1196/4W. VOR portion unusable 330°-090° byd 10 NM blo 8000'. DME unusable 250°-090° byd 30 NM blo 4500'.

SUOMI NDB (LOM) 410 SO N46°15.71′ W87°24.97′ 013° 5.6NM to fld. Class IE. LOM SOUMI NDB, ILS unmonitored. IIS 110 1 I-SOU Rwv 01.

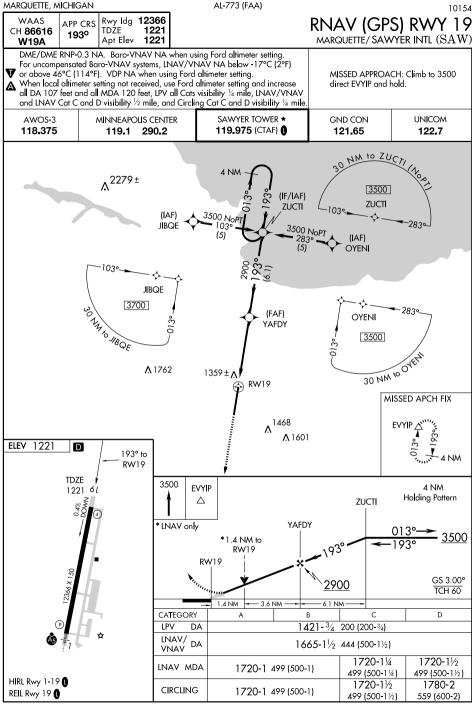
COMM/NAV/WEATHER REMARKS: No emergency frequencies at twr.

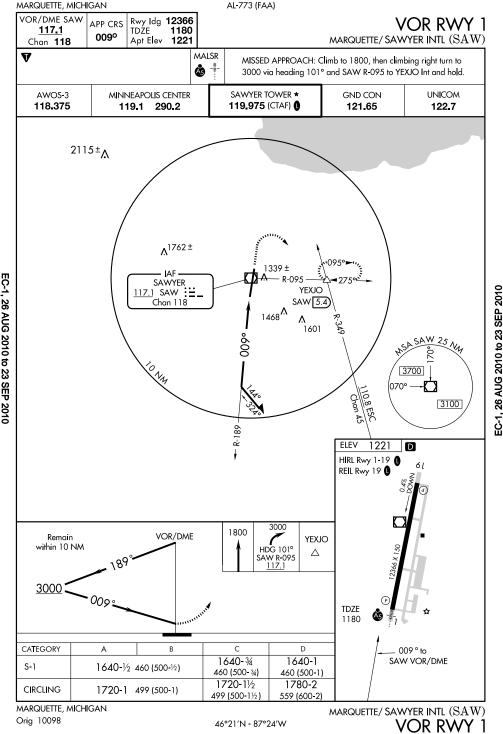


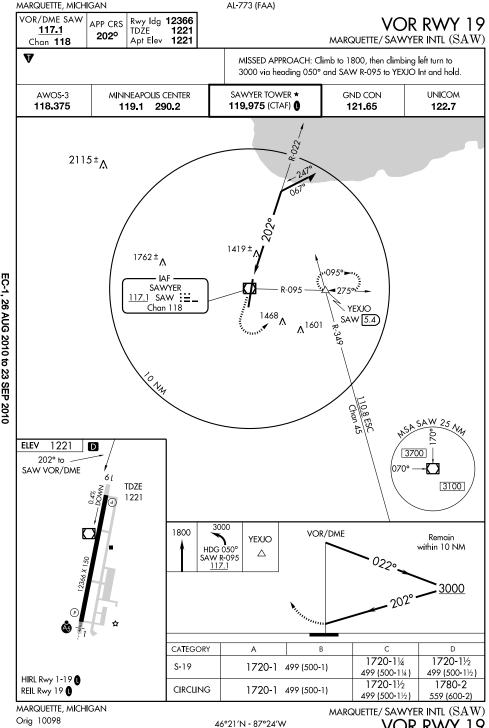


Orig-A 03JUN10

NDB RW







DETROIT

(a)

1-281

IAP

# MARSHALL

BROOKS FLD

(RMY) 1 S UTC-5(-4DT) N42°15.07′ W84°57.33′ 941 FUEL 100LL. TPA-1941(1000) NOTAM FILE RMY RWY 10-28: H3501X75 (ASPH) S-20 MIRL

RWY 10: PAPI (P4L)-GA 4.0° TCH 25'. Tree. RWY 28: PAPI (P4R)-GA 4.0° TCH 36'. Trees.

AIRPORT REMARKS: Attended 1300Z‡-dusk except major holidays. Parachute activity on and invof arpt. Snow removal in progress 15

Nov-15 Apr. Vehicle operators monitor CTAF. Noise abatement

procedures in effect ctc arpt manager 269-781-5183 extension 1150. CAUTION: Deer on and invof arpt, Extensive glider and ultralight activity on and invof arpt. Ultralight acft ops south of

Rwy 10-28. Ultralight acft fly left hand pattern 500' AGL, S of Rwy 10-28. MIRL Rwy 10-28 and H1 perimeter lgts preset low ints, to increase ints ACTIVATE-CTAF.

WEATHER DATA SOURCES: AWOS-3 120.025 (269) 781-9070. COMMUNICATIONS: CTAF/UNICOM 122.8 BATTLE CREEK RCO 122.2 (LANSING RADIO)

(R) KALAMAZOO APP/DEP CON 119.2 (1100-0400Z‡) R CHICAGO CENTER APP/DEP CON 127.55 (0400-1100Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE BTL.

BATTLE CREEK (T) VORTACW 109.4 BTL Chan 31 N42°18.59'

W85°15.14' 107° 13.7 NM to fld. 922/2W.

. . HELIPAD H1: H50X50 (CONC) S-12.5 PERIMETER LGTS HELIPAD H1: Pole.

HELIPORT REMARKS: 150' Igtd water twr 3000' south of pad. 21' Igtd pole 195' northeast of pad. No snow removal.

FUEL 100LL, JET A NOTAM FILE TEW S-12.5 RWY 10-28: H4000X75 (ASPH) MIRL

1 SE

and birds on and invof arpt. Hangar space as avbl; confirm by

UTC-5(-4DT)

(TEW)

RWY 10: REIL. PAPI(P4L)-GA 4.0° TCH 35'. Antenna. Rgt tfc. RWY 28: REIL, PAPI(P4L)—GA 3.0° TCH 25', Road, AIRPORT REMARKS: Unattended. Powered parachutes prohibited. Deer

prior arrangement. MIRL Rwy 10-28; PAPI and REIL Rwys 10 and 28 and rotating bcn ops SS-0500Z‡, after 0500Z‡ ACTIVATE—CTAF. Rwy 28 PAPI unusable byd 7° right and left of WEATHER DATA SOURCES: AWOS-3 119.425 (517) 676-5607.

(R) LANSING APP/DEP CON 118.65 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. LANSING (L) VORTACW 110.8 LAN Chan 45 N42°43.04' W84°41.85' 132° 15.2 NM to fld. 887/5W.

COMMUNICATIONS: CTAF/UNICOM 122.7

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### MASON CO (See LUDINGTON)

MASON JEWETT FLD

MBS INTL (See SAGINAW)

MECOSTA MORTON (27C)

COMMUNICATIONS: CTAF 122.9

NOTAM FILE LAN RWY 09-27: 2027X100 (TURF)

RWY 27: Brush. RWY 09: Thid dspicd 546', Road. RWY 03-21: 2010X100 (TURF)

2 W

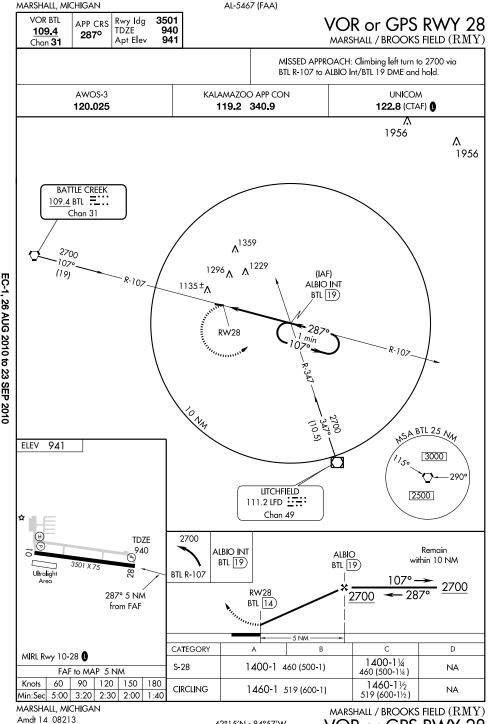
RWY 21: Thid dsplcd 460'. Trees.

N43°37.75′ W85°15.75′

RWY 03: Thid dsplcd 760'. Trees. AIRPORT REMARKS: Unattended. Arpt CLOSED when rwys are snow covered or with standing water. No winter snow

UTC-5(-4DT)

removal. Model aircraft area east of Rwy 03-21 intersection. Rwy 03-21 and dsplcd thld marked with 18 inch yellow cones. Rwy 09-27 and dsplcd thid marked with 18 inch yellow cones.



DETROIT

(a)

1-281

IAP

# MARSHALL

BROOKS FLD

(RMY) 1 S UTC-5(-4DT) N42°15.07′ W84°57.33′ 941 FUEL 100LL. TPA-1941(1000) NOTAM FILE RMY RWY 10-28: H3501X75 (ASPH) S-20 MIRL

RWY 10: PAPI (P4L)-GA 4.0° TCH 25'. Tree. RWY 28: PAPI (P4R)-GA 4.0° TCH 36'. Trees.

AIRPORT REMARKS: Attended 1300Z‡-dusk except major holidays. Parachute activity on and invof arpt. Snow removal in progress 15

Nov-15 Apr. Vehicle operators monitor CTAF. Noise abatement

procedures in effect ctc arpt manager 269-781-5183 extension 1150. CAUTION: Deer on and invof arpt, Extensive glider and ultralight activity on and invof arpt. Ultralight acft ops south of

Rwy 10-28. Ultralight acft fly left hand pattern 500' AGL, S of Rwy 10-28. MIRL Rwy 10-28 and H1 perimeter lgts preset low ints, to increase ints ACTIVATE-CTAF.

WEATHER DATA SOURCES: AWOS-3 120.025 (269) 781-9070. COMMUNICATIONS: CTAF/UNICOM 122.8 BATTLE CREEK RCO 122.2 (LANSING RADIO)

(R) KALAMAZOO APP/DEP CON 119.2 (1100-0400Z‡) R CHICAGO CENTER APP/DEP CON 127.55 (0400-1100Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE BTL.

BATTLE CREEK (T) VORTACW 109.4 BTL Chan 31 N42°18.59'

W85°15.14' 107° 13.7 NM to fld. 922/2W.

. . HELIPAD H1: H50X50 (CONC) S-12.5 PERIMETER LGTS HELIPAD H1: Pole.

HELIPORT REMARKS: 150' Igtd water twr 3000' south of pad. 21' Igtd pole 195' northeast of pad. No snow removal.

FUEL 100LL, JET A NOTAM FILE TEW S-12.5 RWY 10-28: H4000X75 (ASPH) MIRL

1 SE

and birds on and invof arpt. Hangar space as avbl; confirm by

UTC-5(-4DT)

(TEW)

RWY 10: REIL. PAPI(P4L)-GA 4.0° TCH 35'. Antenna. Rgt tfc. RWY 28: REIL, PAPI(P4L)—GA 3.0° TCH 25', Road, AIRPORT REMARKS: Unattended. Powered parachutes prohibited. Deer

prior arrangement. MIRL Rwy 10-28; PAPI and REIL Rwys 10 and 28 and rotating bcn ops SS-0500Z‡, after 0500Z‡ ACTIVATE—CTAF. Rwy 28 PAPI unusable byd 7° right and left of WEATHER DATA SOURCES: AWOS-3 119.425 (517) 676-5607.

(R) LANSING APP/DEP CON 118.65 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. LANSING (L) VORTACW 110.8 LAN Chan 45 N42°43.04' W84°41.85' 132° 15.2 NM to fld. 887/5W.

COMMUNICATIONS: CTAF/UNICOM 122.7

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### MASON CO (See LUDINGTON)

MASON JEWETT FLD

MBS INTL (See SAGINAW)

MECOSTA MORTON (27C)

COMMUNICATIONS: CTAF 122.9

NOTAM FILE LAN RWY 09-27: 2027X100 (TURF)

RWY 27: Brush. RWY 09: Thid dspicd 546', Road. RWY 03-21: 2010X100 (TURF)

2 W

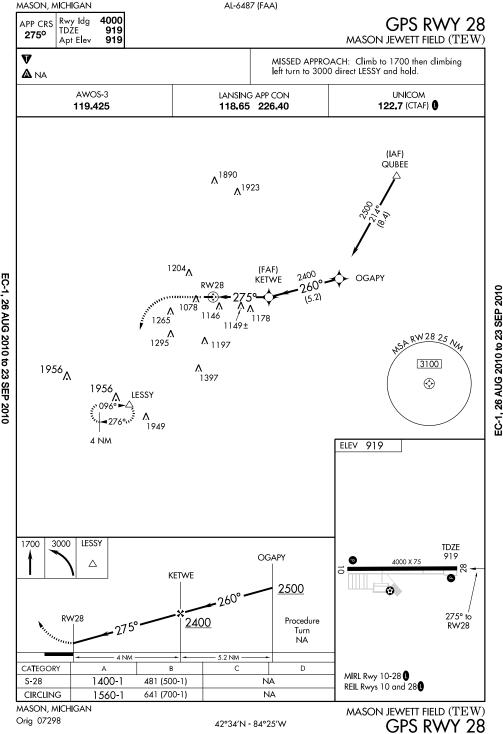
RWY 21: Thid dsplcd 460'. Trees.

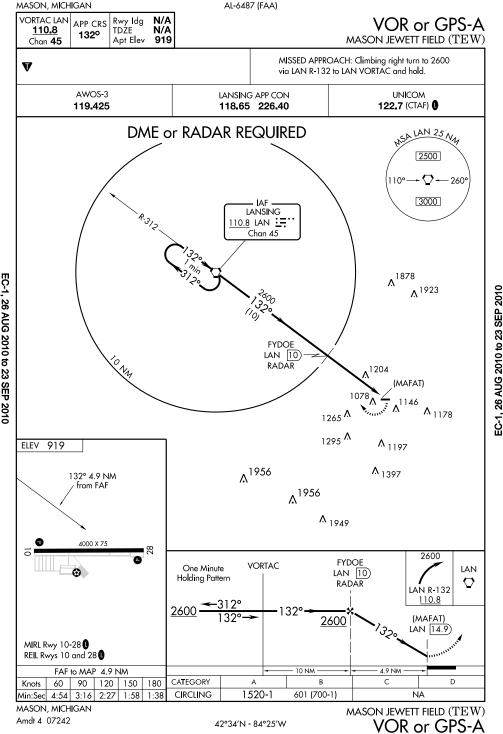
N43°37.75′ W85°15.75′

RWY 03: Thid dsplcd 760'. Trees. AIRPORT REMARKS: Unattended. Arpt CLOSED when rwys are snow covered or with standing water. No winter snow

UTC-5(-4DT)

removal. Model aircraft area east of Rwy 03-21 intersection. Rwy 03-21 and dsplcd thld marked with 18 inch yellow cones. Rwy 09-27 and dsplcd thid marked with 18 inch yellow cones.





182 **MICHIGAN** 

N45°07 60' W87°38 31' 625 B S2 FUEL 100LL JET A NOTAM FILE MNM

(MNM)

1 NW

UTC-6(-5DT)

N43°39.78' W84°15.68'

RWY 03-21: H6000X100(ASPH) S-80, D-100, 2S-127, 2D-175 HIRI

RWY 03. MALSE

RWY 21: PAPI(P4L)-GA 3.0° TCH 43'.

RWY 14-32: H5100X100 (ASPH-PFC) S-30, D-35.

DT-60 MIRL 0.3% up NW

RWY 14: VASI(V4L)-GA 3.0° TCH 41'. Trees. RWY 32: PAPI(P4L)-GA 3.0° TCH 39'. Tree.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z±, Sat

MENOMINEE-MARINETTE TWIN CO

1400-1800Z±, for attendant after hrs call 715-938-2006 or

906-282-0260, 24 hr self-serve 100LL with major credit card.

Deer and gulls on and invof arpt. Avoid over flight of noise

sensitive area lctd 7 miles S of aprt. 48 hr PPR for unscheduled air carrier ops with more than 30 passenger seats call 906-863-8408. ACTIVATE HIRL Rwv 03-21. MIRL Rwv 14-32: VASI Rwy 14, PAPI Rwy 21 and Rwy 32; MALSR Rwy 03-CTAF.

WEATHER DATA SOURCES: AWOS-3 109.6 MNM (906) 863-8801. COMMUNICATIONS: CTAF/UNICOM 122.8 RCO 122.1R 109.6T (GREEN BAY RADIO)

GREEN BAY APP/DEP CON 119.5 (1130-0530Z±) (R) MINNEAPOLIS CENTER APP/DEP CON 125.55 (0530-1130Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE MNM.

(I) VNR/NMF 109 6 MNM

TRIBE NDB (LOM) 239 TN N45°03.70′ W87°41.76′ 035° 4.6 NW to fld. IIS 108 7 I-TNO Rwv 03. Class IB. LOM TRIBE NDB. ILS unmonitored.

MERILLAT (See TECUMSEH)

### MEYERS-DIVER'S (See TECUMSEH)

MIDLAND

JACK BARSTOW (IKW) 3 NW UTC-5(-4DT) В S4

FUEL 100LL, JET A NOTAM FILE LAN RWY 06-24: H3801X75 (ASPH) S-24 MIRL 0.4% up NE RWY 06: REIL. PAPI(P2L). Road.

RWY 24: REIL. PAPI(P2L), Trees. RWY 18-36: H3001X75 (ASPH) S-24 MIRL

RWY 18: REIL. PAPI(P2L). Trees. RWY 36: REIL. PAPI(P2L). Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2300Z±. Sat-Sun

1300-2100Z‡. Arpt unattended major holidays. Deer on and invof

arpt. Occasional ultralight activity. Noise sensitive area S of arpt:

use preferred Rwy 06-24, MIRL Rwy 06-24 and Rwy 18-36 preset

on low ints dusk-0400Z‡. After 0400Z‡ ACTIVATE-CTAF. To increase ints and ACTIVATE PAPI and REIL Rwys 06, 24, 18 and

WEATHER DATA SOURCES: AWOS-3 119.525 (989) 835-5841. COMMUNICATIONS: CTAF/UNICOM 122.8

(R) SAGINAW APP/DEP CON 126.45 (1100-0400Z±)

(R) CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z‡) GCO 121.725 (SAGINAW CLNC and FLIGHT SERVICES)

COMM/NAV/WEATHER REMARKS: GCO OTS indef.

RADIO AIDS TO NAVIGATION: NOTAM FILE MBS. SAGINAW (L) VORW/DME 112.9 MBS

Chan 76 N43°31.90' W84°04.64' 318° 11.2 NM to fld. 663/3W.

**(3** Chan 33 N45°10.81′ W87°38.83′ 173° 3.2 NM to fld. 650/00E. AW0S-3.

CG CG

DETROIT

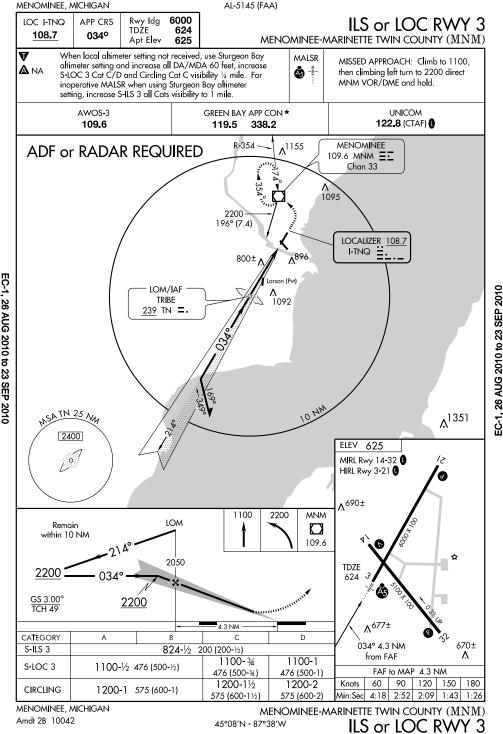
**GREEN BAY** 

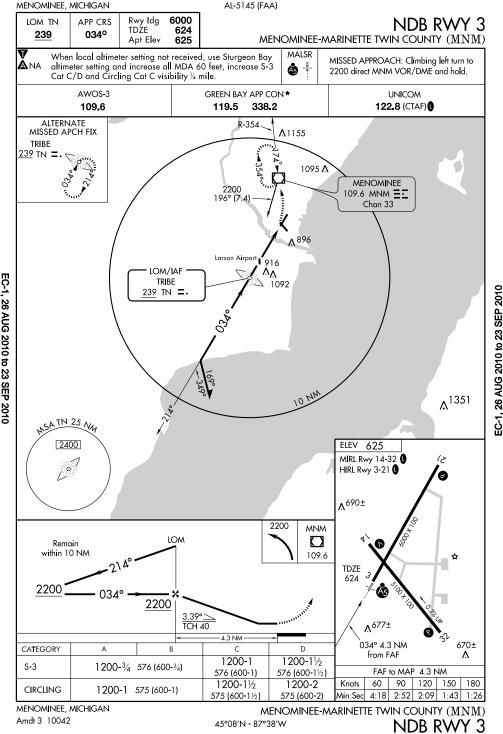
H-2J, L-31B

IAP

L-28J. 31C IAP

Mobile Home Park 300 C C (3 *(*3 • Ø Œ €3 a €3 €3 €3 3





MENOMINEE, MICHIGAN AL-5145 (FAA) WAAS 6000 RNAV (GPS) RWY 3 Rwy Ida APP CRS CH **73014** 624 TDŹE 034° MENOMINEE-MARINETTE TWIN COUNTY (MNM) 625 Apt Elev **W03A** V For inoperative MALSR, increase LNAV Cat D visibility to 1¼. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). Α MALSR MISSED APPROACH: DME/DME RNP-0.3 NA. When local altimeter setting not received, use Sturgeon Bay altimeter setting and increase all DA/MDA 60 feet, increase LNAV Cat C and Circling Climb to 2300 direct Cat C visibility ¼ mile. Baro-VNAV and VDP NA when using Sturgeon Bay altimeter UCINI and hold. setting. For inoperative MALSR when using Sturgeon Bay altimeter setting, increase LPV all Cats visibility to 1 mile. AWOS-3 GREEN BAY APP CON ★ UNICOM 109.6 122.8 (CTAF) 0 119.5 338.2 MISSED APCH FIX / <u>/</u> 1095 30 MM to SEGO 2900 734± **RW03** UCINI TACUC **SEGOC** 2.2 NM to 896 RW03 Larson Airport 1092 (FAF) (IAF) LEYID SÈGO 2400 KAPCE NOPY (IF/IAF OMUPE 1351 ۸ KAPCE 2200 Ty O NM NOPTI 2900 **ELEV 625** ح/ 2300 UCINI 4 NM Holding Pattern ۸<sup>690±</sup> **TACUC** OMUPF **LEYID** 2.2 NM td \*LNAV only RW03 2200 034° \*1.1 NM to RW03 **RW03** 2200 \*1360 GS 3.00° TCH 49 TDZE 624 6 NM - 2.6 NM -< 1 1 -CATEGORY Α В C D I PV DA 824-1/2 200 (200-1/2) ۸<sup>677±</sup> LNAV/ DA 1150-11/2 526 (600-11/2) 034° to 670± VNAV **RW03** 1000-1LNAV MDA 1000-1/2 376 (400-1/2) 376 (400-1) MIRL Rwy 14-32 0 1200-2 1200-1½ CIRCLING 1200-1 575 (600-1) HIRL Rwy 3-21 ( 575 (600-2) 575 (600-11/2)

MENOMINEE, MICHIGAN Orig 10042

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, 26 AUG 2010 to 23 SEP 2010

45°08'N - 87°38'W

MENOMINEE-MARINETTE TWIN COUNTY (MNM)RNAV (GPS) RW

MENOMINEE, MICHIGAN AL-5145 (FAA)

6000 Rwy Idg APP CRS TDŹE 625 214° 625 Apt Elev

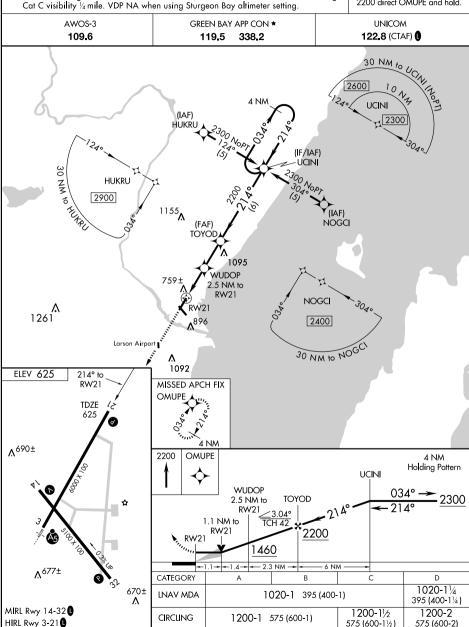
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26 AUG 2010 to 23 SEP 2010

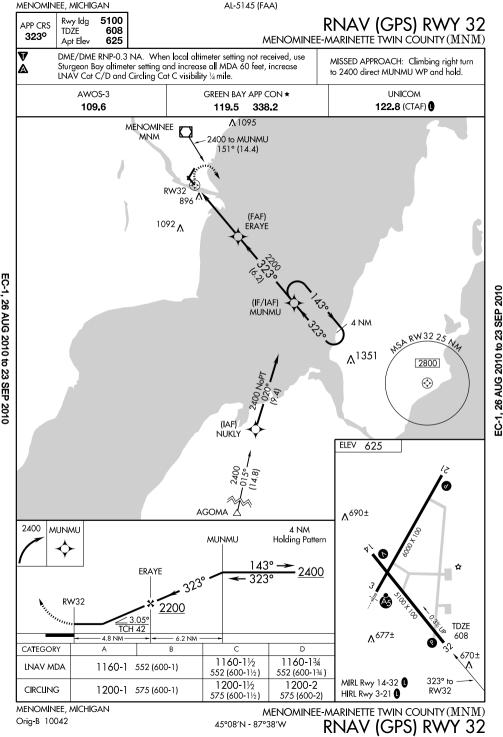
## RNAV (GPS) RWY 21 MENOMINEE-MARINETTE TWIN COUNTY (MNM)

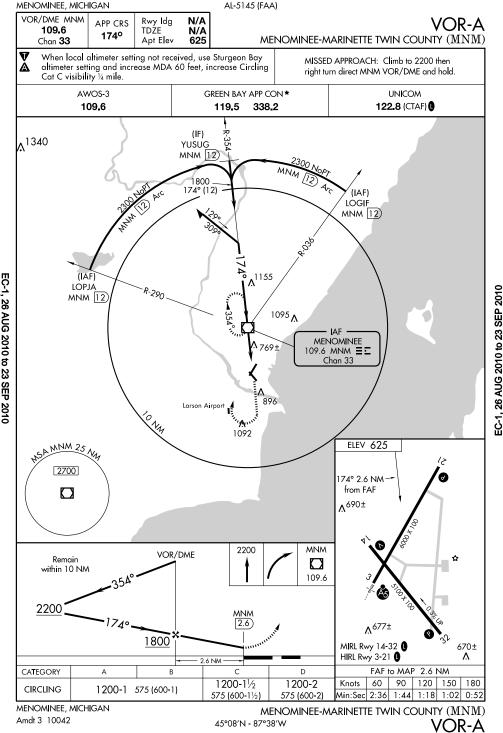
DME/DME RNP-0.3 NA. When local altimeter setting not received, use Sturgeon Bay MISSED APPROACH: Climb to altimeter setting and increase all MDA 60 feet, increase LNAV Cat C/D and Circling 2200 direct OMUPE and hold.



MENOMINEE, MICHIGAN Orig 10042

MENOMINEE-MARINETTE TWIN COUNTY (MNM)RNAV (GPS)





182 **MICHIGAN** 

N45°07 60' W87°38 31' 625 B S2 FUEL 100LL JET A NOTAM FILE MNM

(MNM)

1 NW

UTC-6(-5DT)

N43°39.78' W84°15.68'

RWY 03-21: H6000X100(ASPH) S-80, D-100, 2S-127, 2D-175 HIRI

RWY 03. MALSE

RWY 21: PAPI(P4L)-GA 3.0° TCH 43'.

RWY 14-32: H5100X100 (ASPH-PFC) S-30, D-35.

DT-60 MIRL 0.3% up NW

RWY 14: VASI(V4L)-GA 3.0° TCH 41'. Trees. RWY 32: PAPI(P4L)-GA 3.0° TCH 39'. Tree.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z±, Sat

MENOMINEE-MARINETTE TWIN CO

1400-1800Z±, for attendant after hrs call 715-938-2006 or

906-282-0260, 24 hr self-serve 100LL with major credit card.

Deer and gulls on and invof arpt. Avoid over flight of noise

sensitive area lctd 7 miles S of aprt. 48 hr PPR for unscheduled air carrier ops with more than 30 passenger seats call 906-863-8408. ACTIVATE HIRL Rwv 03-21. MIRL Rwv 14-32: VASI Rwy 14, PAPI Rwy 21 and Rwy 32; MALSR Rwy 03-CTAF.

WEATHER DATA SOURCES: AWOS-3 109.6 MNM (906) 863-8801. COMMUNICATIONS: CTAF/UNICOM 122.8 RCO 122.1R 109.6T (GREEN BAY RADIO)

GREEN BAY APP/DEP CON 119.5 (1130-0530Z±) (R) MINNEAPOLIS CENTER APP/DEP CON 125.55 (0530-1130Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE MNM.

(I) VNR/NMF 109 6 MNM

TRIBE NDB (LOM) 239 TN N45°03.70′ W87°41.76′ 035° 4.6 NW to fld. IIS 108 7 I-TNO Rwv 03. Class IB. LOM TRIBE NDB. ILS unmonitored.

MERILLAT (See TECUMSEH)

### MEYERS-DIVER'S (See TECUMSEH)

MIDLAND

JACK BARSTOW (IKW) 3 NW UTC-5(-4DT) В S4

FUEL 100LL, JET A NOTAM FILE LAN RWY 06-24: H3801X75 (ASPH) S-24 MIRL 0.4% up NE RWY 06: REIL. PAPI(P2L). Road.

RWY 24: REIL. PAPI(P2L), Trees. RWY 18-36: H3001X75 (ASPH) S-24 MIRL

RWY 18: REIL. PAPI(P2L). Trees. RWY 36: REIL. PAPI(P2L). Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2300Z±. Sat-Sun

1300-2100Z‡. Arpt unattended major holidays. Deer on and invof

arpt. Occasional ultralight activity. Noise sensitive area S of arpt:

use preferred Rwy 06-24, MIRL Rwy 06-24 and Rwy 18-36 preset

on low ints dusk-0400Z‡. After 0400Z‡ ACTIVATE-CTAF. To increase ints and ACTIVATE PAPI and REIL Rwys 06, 24, 18 and

WEATHER DATA SOURCES: AWOS-3 119.525 (989) 835-5841. COMMUNICATIONS: CTAF/UNICOM 122.8

(R) SAGINAW APP/DEP CON 126.45 (1100-0400Z±)

(R) CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z‡) GCO 121.725 (SAGINAW CLNC and FLIGHT SERVICES)

COMM/NAV/WEATHER REMARKS: GCO OTS indef.

RADIO AIDS TO NAVIGATION: NOTAM FILE MBS. SAGINAW (L) VORW/DME 112.9 MBS

Chan 76 N43°31.90' W84°04.64' 318° 11.2 NM to fld. 663/3W.

**(3** Chan 33 N45°10.81′ W87°38.83′ 173° 3.2 NM to fld. 650/00E. AW0S-3.

CG CG

DETROIT

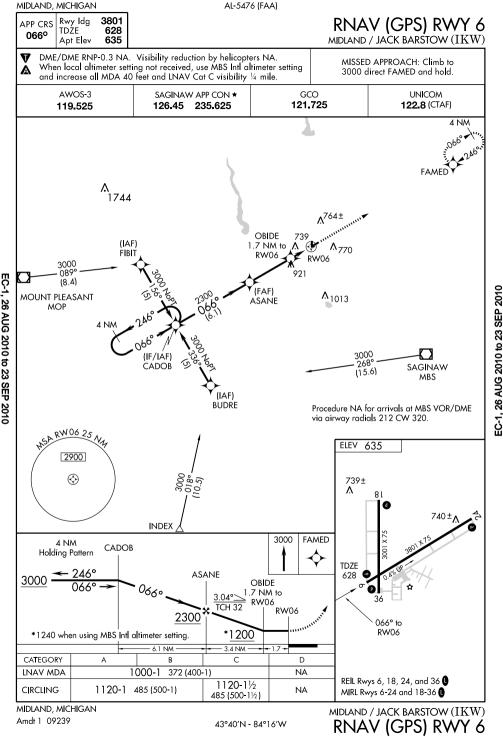
**GREEN BAY** 

H-2J, L-31B

IAP

L-28J. 31C IAP

Mobile Home Park 300 C C (3 *(*3 • Ø Œ €3 a €3 €3 €3 **3** 

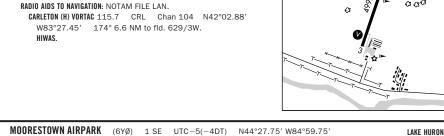


MIN OSCODA CO (51M) 2N UTC-5(-4DT) N44°40.83' W84°07.50' LAKE HIIRON 1050 NOTAM FILE LAN RWY 09-27: 2800X90 (DIRT) LIRL RWY 09: Thid dsplcd 978'. Trees. RWY 27: Thid dsplcd 784', Trees. AIRPORT REMARKS: Unattended. Arpt CLOSED Dec thru Apr except PPR; confirm rwy condition. Rwy 09-27 sfc rough with large areas of soft sand on rwy. Rwy 09-27 marked with 3' yellow cones. ACTIVATE LIRL Rwy 09-27-CTAF. COMMUNICATION: CTAF 122 9 MONROE CUSTER (TTF) 2 NW UTC-5(-4DT) N41°56.39' W83°26.08' DETROIT 616 S4 FUEL 100LL, JET A OX 1 NOTAM FILE TTF COPTER

**MICHIGAN** 

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RWY 03-21: H4997X100 (ASPH) S-60, D-80 L-28J RWY 03: VASI(V2L)-GA 4.0° TCH 49'. Trees. IAP RWY 21: REIL, PAPI(P2L)—GA 3.5° TCH 42', Trees. AIRPORT REMARKS: Attended 1300Z‡-dusk. ACTIVATE MIRL Rwy 03-21, REIL Rwy 21, VASI Rwy 03 and PAPI Rwy 21-CTAF. WEATHER DATA SOURCES: AWOS-3 119.075 (734) 384-0259. COMMUNICATIONS: CTAF/UNICOM 122.7 CARLETON RCO 122.1R 115.7T (LANSING RADIO) (R) DETROIT APP/DEP CON 134.3 GCO 121.725 (DETROIT METRO CLNC and FLIGHT SERVICES) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN CARLETON (H) VORTAC 115.7 CRL Chan 104 N42°02.88' W83°27.45' 174° 6.6 NM to fld. 629/3W. **2AWIH** 

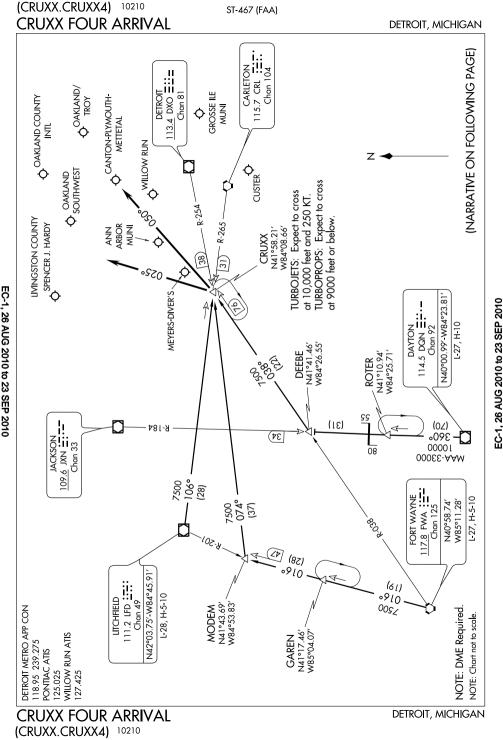


# MOORESTOWN AIRPARK (6YØ) 1 SE UTC-5(-4DT) N44°27.75′ W84°59.75′ 1213 NOTAM FILE LAN RWY 03-21: 2797X100 (TURF) RWY 03: Thild dspicd 799′. Tree. RWY 01-21-2599X100 (TURF)

COMMUNICATIONS: CTAF/UNICOM 122 8

RWY 03-21: 2797X100 (TURF)
RWY 03-21: 2797X100 (TURF)
RWY 09-27: 2599X100 (TURF)
RWY 09-71: 2599X100 (TURF)
RWY 09-71: 2599X100 (TURF)
RWY 27: Thid dspicd 429'. Road.

AIRPORT REMARKS: Attended Apr—Nov dawn—dusk. No snow removal in winter. Open winter months to ski equipped acft only. Rwy 03-21 marked with 3' yellow cones. Rwy 09-27 marked with 3' yellow cones.



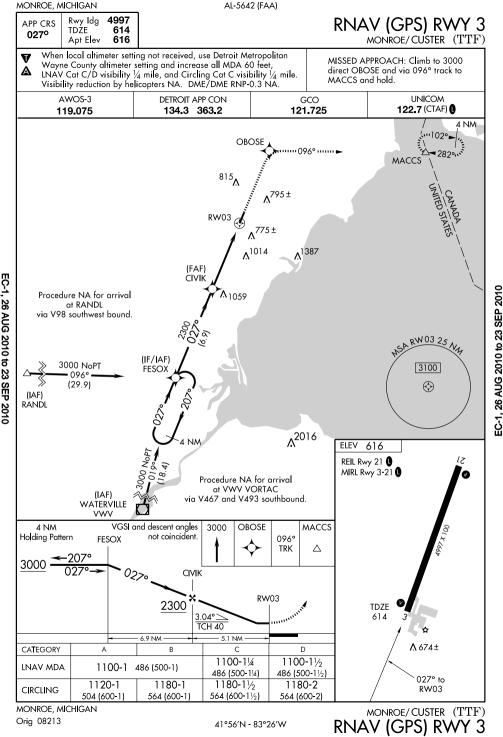
## ARRIVAL DESCRIPTION

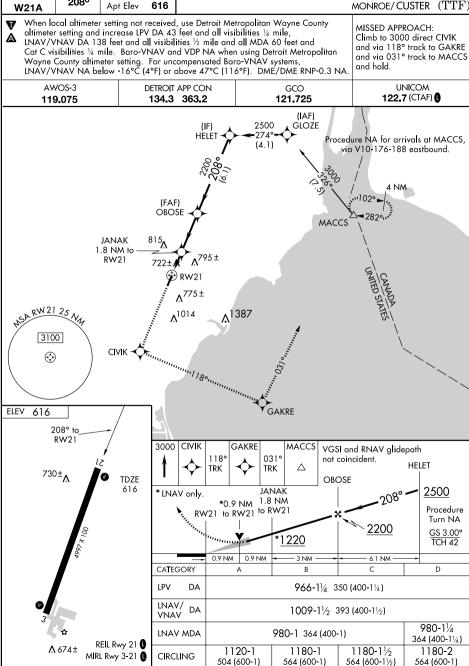
DAYTON TRANSITION (DQN.CRUXX4): From over DQN VOR/DME via DQN R-360 and JXN R-184 to DEEBE INT and FWA R-038 to CRUXX INT. Thence . . . . FORT WAYNE TRANSITION (FWA.CRUXX4): From over FWA VORTAC via FWA R-016 to MODEM INT and DXO R-254 to CRUXX INT. Thence . . . . LITCHFIELD TRANSITION (LFD.CRUXX4): From over LFD VORTAC via LFD R-106 to CRUXX INT. Thence . . . .

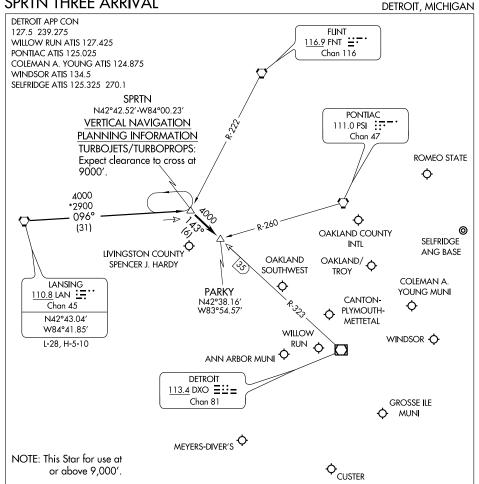
.... Aircraft landing Y47, PTK, OMI7, ØZW, ONZ, 1D2, TTF, VLL: From over CRUXX INT via 025° heading.

. . . . Aircraft landing YIP or ARB: From over CRUXX INT via 050° heading.

Expect radar vector to final approach course.







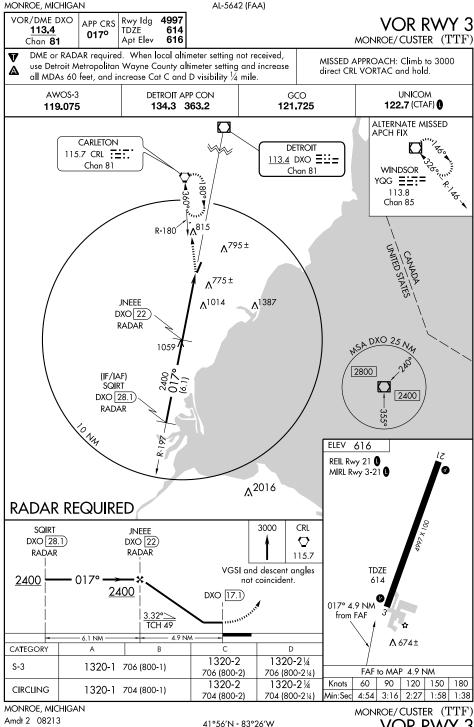
LANSING TRANSITION (LAN.SPRTN3): From over LAN VORTAC via LAN R-096 to SPRTN INT. Thence . . . .

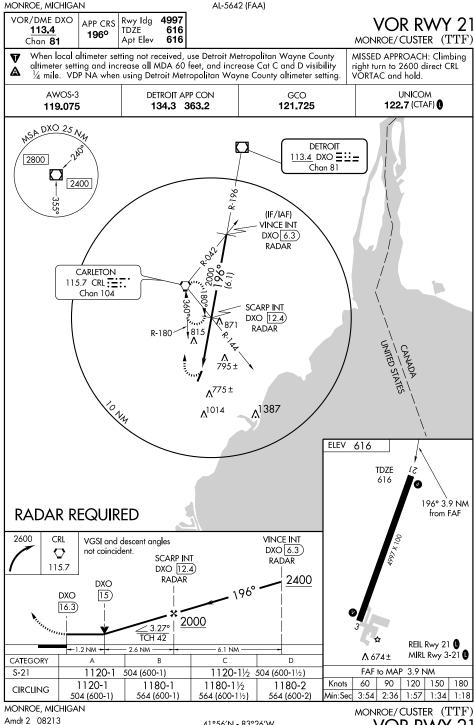
. . . . Aircraft landing: DET, PTK, VLL, D98, MTC, ARB, YIP, ONZ, 1D2, TTF, Y47, 36MI, OZW, 3TE, YQG: From over SPRTN INT via DXO R-323

to PARKY INT. Thence . . . .

. . . . Expect radar vectors to final approach course.

NOTE: Chart not to scale.





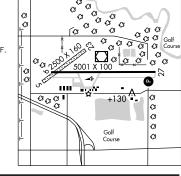
41°56'N - 83°26'W

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#### MOUNT PLEASANT MUNI (MOP) 2 NE UTC-5(-4DT) N43°37.30′ W84°44.24′ DETROIT 755 B S4 FUEL 100LL, JET A NOTAM FILE MOP H-2K, 10F, L-28J RWY 09-27: H5001X100 (ASPH) S-50, D-65, 2S-82, 2D-118 MIRL IAP RWY N9: Trees RWY 27: REIL. PAPI(P4L)-GA 3.0° TCH 35'. RWY 05-23: 2500X160 (TURF) RWY 05: Tree RWY 23: Trees AIRPORT REMARKS: Attended 1300Z‡-dusk. Fuel 24 hour major credit card self syc. Deer and birds on and invof arpt. Parachute Jumping, Rwy 27 noise abatement; climb to 1500' AGL before turning over city. Rwy 05-23 marked with 3' yellow cones. ACTIVATE MIRL Rwy 09-27, REIL Rwy 27 and PAPI Rwy 27-CTAF. 5001 X 100 WEATHER DATA SOURCES: AWOS-3 110.6 MOP (989) 773-2885. COMMUNICATIONS: CTAF/UNICOM 123.0

(R) SAGINAW APP/DEP CON 126.45 (1100-0400Z±) CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. (L) VORW/DME 110.6 MOP Chan 43 N43°37.37' W84°44.24' at fld. 752/5W. AW0S-3. DME portion unusable byd 33 NM blo 4000'.

RCO 122.6 (LANSING RADIO)



GREEN BAY

# MUNISING

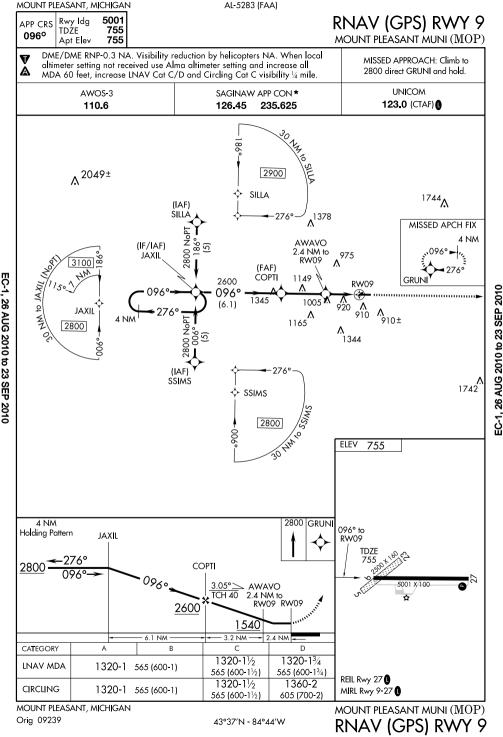
#### HANLEY FLD (5Y7) 3 SE UTC-5(-4DT) N46°21.25′ W86°37.26′

NOTAM FILE GRB RWY 18-36: 4000X120 (TURF)

RWY 18: Trees RWY 36: Trees

COMMUNICATIONS: CTAF 122 9

AIRPORT REMARKS: Attended irregularly May-Nov, Arpt CLOSED Nov-May 14, Birds and deer on and invof arpt, Rwy 18-36 marked with cones.



<u>М</u>

, 26 AUG 2010 to 23 SEP 2010

AL-5283 (FAA)

# RNAV (GPS) RWY 27

MOUNT PLEASANT MUNI (MOP)

EC-1, 26 AUG 2010 to 23 SEP 2010

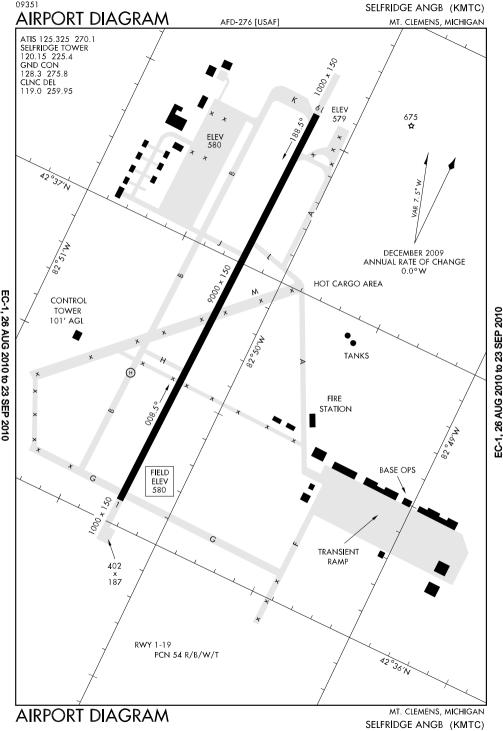
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or MISSED APPROACH: Climb to 3000 above 47°C (116°F). DME/DME RNP-0.3 NA. When local altimeter setting not direct COPTI and via 186° track Y received, use Alma altimeter setting and increase all DA 42 feet and all MDA 60 feet, increase LPV, LNAV/VNAV all Cats, LNAV Cat D and Circling Cat C direct INDAF and via 132° track to ELMME and hold. visibilities ¼ mile. Baro-VNAV and VDP NA when using Alma altimeter setting. UNICOM AWOS-3 SAGINAW APP CON \* 123.0 (CTAF) ( 110.6 126,45 235.625 30 WM 00 00 NM 00 ۸<sup>1744</sup> 2900 (IAF) <sup>1378</sup>∧ ANUŹA ANUZA ∜ 2800 NoPI <sup>975</sup>∧ 4 NM (FAF) COPTI ĎIZNÓ 096° 1149 RW27 845± 2500 276° 1345 1005 ₺ (6.1)902 **^** 1165 **∧** 910± (IF/IAF) 2800 NoPT ۸ **GRUNI** 1344 096 2800 **FISOD** 1742 (IAF) 30 NM 10 F500 GRUN FISOD 2800 2900 MISSED APCH FIX 4 NM ELEV 755 ELMME 3000 COPTI INDAF ELMME 4 NM **GRUNI** Holding Pattern TRK TRK Δ 186 1329 2800 \*LNAV only DIZNO 276° \*1.2 NM to **RW27** 276° to **RW27** RW27 2500 GS 3.00° TCH 37 6.1 NM -1.2 NM -- - 4.1 NM -TDZE 753 CATEGORY Α C D I PV 1099-11/4 346 (400-11/4) DA LNAV/ DA 1201-1/2 448 (500-1/2) VNAV LNAV MDA 1160-1 1160-11/4 407 (500-11/4) 407 (500-1) REIL Rwy 27 0 1320-11/2 1360-2 **CIRCLING** MIRL Rwy 9-27 1 1220-1 465 (500-1) 565 (600-11/2) 605 (700-2)

MOUNT PLEASANT, MICHIGAN

Orig 09239 43°37′N - 84°44′W

MOUNT PLEASANT MUNI (MOP) RNAV (GPS)

MOUNT PLEASANT, MICHIGAN AL-5283 (FAA) VOR/DME MOP 5001 VOR RWY 27 Rwy Idg APP CRS 110,6 TDŹE 753 284° MOUNT PLEASANT MUNI (MOP)Apt Elev 755 Chan 43 MISSED APPROACH: Climb to Visibility reduction by helicopters NA. When local altimeter setting not received, use Alma altimeter setting and increase all MDA 60 feet, S-27 Cat D and 2400 then right turn direct Δ Circling Cat C visibilities 4 mile. VDP NA when using Alma altimeter setting. MOP VOR/DME and hold. **UNICOM** AWOS-3 SAGINAW APP CON ★ 123.0 (CTAF) ( 110.6 126.45 235,625 <sup>1744</sup>∧ ۸<sup>1378</sup> ۸<sup>975</sup> EC-1, 26 AUG 2010 to 23 SEP 2010 1149 <sup>1345</sup>∧ 1005 A 284∘ 1165 ^ R-104 910± ۸ <sub>1344</sub> IAF MT. PLEASANT 110.6 MOP ==-1742 Chan 43 NSA MOP 25 Ny 3100 ELEV 755 2400 MOP VOR/DME Remain 284° to within 10 NM MOP VOR/DME 6000 110.6 5001 X 100 2400 MOP 2 TDZE 753 -0.5 -1.5 -CATEGORY С D Α В S-27 1260-11/2 507 (600-11/2) 1260-1 507 (600-1) REIL Rwy 27 0 1320-11/2 1360-2 CIRCLING 1260-1 505 (600-1) MIRL Rwy 9-27 0 565 (600-11/2) 605 (700-2) MOUNT PLEASANT, MICHIGAN MOUNT PLEASANT MUNI (MOP) Amdt 1 09239 43°37′N - 84°44′W VOR RW



SEBEWAING (98G) UTC-5(-4DT) N43°43.75′ W83°27.75′ OW 584 FUEL 100LL NOTAM FILE LAN RWY 18-36: H2178X50 (ASPH) S-10 LIRL

202

RWY 06-24: 2150X130 (TURF) RWY 06: Brush. RWY 24: Thid dsplcd 483', Railroad. AIRPORT REMARKS: Attended irregularly. For fuel call 989-883-3787 or 989-550-1145. Rwy 06-24 not plowed

RWY 18: Trees.

winter months, may be wet or unusable during spring thaw. Seagulls and deer on and invof rwys. Rwy 06-24

marked with 3' cones. Rwy 18-36 numerous cracks, vegetation and deterioration. ACTIVATE LIRL Rwy 18-36-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

SELFRIDGE ANGB (MTC)(KMTC) ANG (ARNG)

N42°36.50' W82°50.13'

RWY 19: ALSF1. REIL. PAPI(P4R)-GA 3.0° TCH 52'. Rgt tfc. MILITARY SERVICE: LGT When twr clsd ACTIVATE arpt lgt freq 120.15.

S overrun hardened may be used for tkf, day VFR condition only.

ops. other times ctc (R)CLEVELAND CENTER APP CON 127.7 308.7.

PMSV METRO 342.5 (Full svc avbl 1000-0400Z‡, clsd hol.) WING COMD POST (OUARTERBACK Control) 311.0 321.0

Rwy 01.

Rwv 19.

GND CON 128.3 275.8

USCG DETROIT AIR 381.8X 5692X

COMM/NAV/WEATHER REMARKS: VFR ARR contact Selfridge App Con 30 NM out 119.6 318.2.

closed holidays. FLUID SP PRESAIR LPOX LOX HPOX

1215-2100Z‡, other times DSN 273-5777. notice required ctc DSN 273-5640 or C586-239-5640.

COMMUNICATIONS: ATIS 125.325 270.1

CLEVELAND CENTER DEP CON 127.7 290.425.

020-345° bvd 20 NM blo 3.000'

Slope Wed 1300-1700Z± (1500/3).

(See BROOKLYN)

(See FMMFTT)

TOWER 120.15 225.4

SELFRIDGE 120.15

ILS 110.1

ILS 110.1

SHAMROCK FLD

SHARPE'S STRIP

ops, other times ctc

AIRSPACE: CLASS D svc continuous. RADIO AIDS TO NAVIGATION: NOTAM FILE MTC.

1300-1500Z‡ (1500/3). TACAN unusable:

I-RFB

Wed 1300-1700Z‡ (1500/3). I-MTC

RWY 36: Thid dsplcd 245', Railroad.

2 NE

UTC-5(-4DT)580 B TPA—See Remarks NOTAM FILE MTC Not insp.

RWY 01-19: H9000X150 (PEM) S-85, D-220, 2D-380, 2D/2D2-800

RWY 01: SALS, REIL, PAPI(P4R)-GA 3.0° TCH 52', Rgt tfc.

JASU 1(M32A-60) 1(A/M32A-86D) 1(MC-11) FUEL J8. Avbl Mon-Fri 1200-0300Z±. Sat-Sun 1430-2100Z±.

MILITARY REMARKS: Opr 1230-0400Z‡, clsd hol. Other times uncontrolled for Department of Homeland Security, ARNG, USCG or emergency ops. See FLIP AP/1 Supplementary Arpt Remark. RSTD Hazardous cargo pad can accommodate C130 and Itd C17 use. No tie downs on pad. No long term parking that location. Helipad on Twy B day VFR only. PPR all acft, DSN 273-5322/4402. CAUTION Moderate bird activity common. Twy B btn Twy H and 500' north of Twy J not visible from twr. TFC PAT TPA-Fighter rectangular and clsd 2200(1620), all others 1700(1120). MISC VIP acft ctc PTD 30 minutes prior to arrival with firm chock time. Base OPS DSN 273-5322, C586-307-5322, fax DSN 273-5814, C586-239-5814; NOTAM DSN 273-4069, C586-239-4069. Snow removal accomplished 1215-2100Z‡ weekdays. Tran acft req use of Selfridge ANGB Drop Zones (DZs). Rwy 01-19 tranversely grooved. Rwy 01-19 S 1500' concrete, center 5700' asphalt, N 1800' concrete. Rwy 01-19

R APP CON 119.6 318.2 (1230–0400Z‡), clsd hol, other times uncontrolled for DHS, ARNG, USCG or emergency

BEP CON 119.6 391.9 (1230−0400Z‡), clsd hol, other times uncontrolled for DHS, ARNG, USCG or emergency

CLNC DEL 119.0 259.95

MTC (133.7) N42°36.78′ W82°49.91′ at fld. 580/6W. No NOTAM MP Thu

PTD 134.85 372.2

PCN 54 R/B/W/T

345°-020° bvd 30 NM blo 3.000'

ILS BC unusable. No NOTAM MP ILS Tue 1300-1500Z‡ (1500/3), Glide Slope

ILS BC unusable. No NOTAM MP ILS Tue 1300-1500Z‡ (1500/3), Glide

OIL 0-128-133-148 SOAP. SOAP Mon-Fri TRAN ALERT Opr 1230-0130Z‡ clsd hol. Ltd fleet scv avbl prior

DETROIT

DETROIT

COPTER

DIAP. AD

H-10G, L-28J, A

HIRL

MT. CLEMENS, MICHIGAN Orig 09351

EC-1, 26 AUG 2010 to 23 SEP 2010

42°36′N-82°50′W

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(KMTC)

SELFRIDGE ANGB

MT. CLEMENS, MICHIGAN

CIRCLING

Amdt 1 09351

1140-11/2

560 (600-11/2)

면 2 4

. 26 AUG 2010 to 23 SEP 2010

42°36'N-82°50'W

1200-21/2

620 (700-21/4)

1160-2

580 (600-2)

1:50 SELFRIDGE ANGB

1:38 1:28 EC-1, 26 AUG 2010 to 23 SEP 2010

120 140 160 180

2:27 2:06

Knots

Min:Sec

MT. CLEMENS, MICHIGAN

560 (600-11/4)

1140-11/2

560 (600-11/2)

42°36′N-82°50′W

560 (600-1%)

1200-21/4

620 (700-21/4)

560 (600-11/2)

1160-2

580 (600-2)

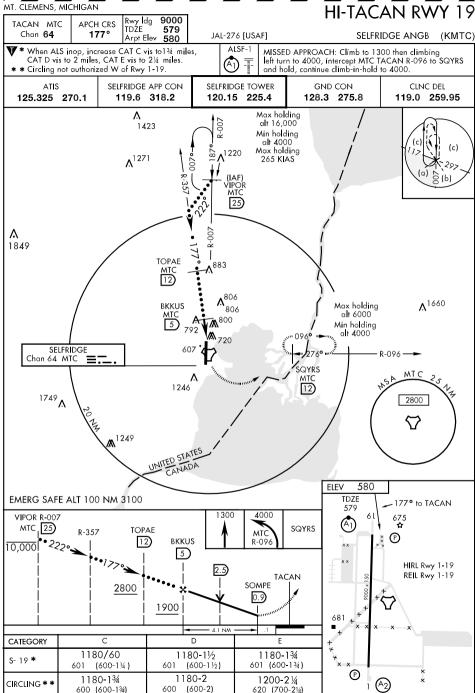
(KMTC)

EC-1, 26 AUG 2010 to 23 SEP 2010

018° to

TACAN

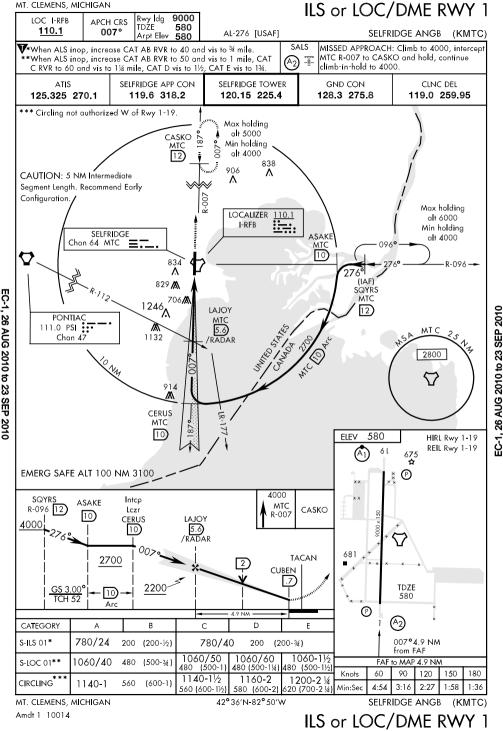
CIRCLING \*\*

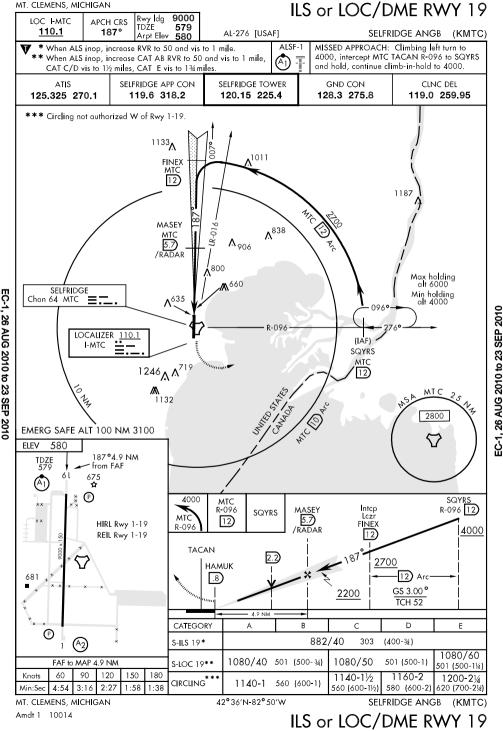


MT. CLEMENS, MICHIGAN

42°36′N-82°50′W

SELFRIDGE ANGB (KMTC)





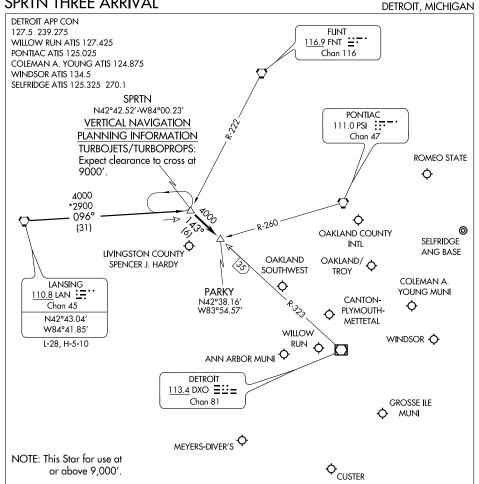
NOTE: Chart not to scale.

EC-1, 26 AUG 2010 to 23 SEP 2010

#### ARRIVAL DETROIT, MICHIGAN 118.95 363.2 PONTIAC ATIS 125.025 124.875 WINDSOR ATIS 134.5 SELFRIDGE ATIS 125.325 270.1 127.425 ANN ARBOR ATIS 134.55 NOTE: RADAR REQUIRED DETROIT APP CON COLEMAN A. YOUNG ATIS WILLOW RUN ATIS JOHNSTOWN L-29, H-10-12 W78°50.05′ N40°19.00′ Chan 77 115.5 PSB :::::. Chan 102 PHILPSBURG W77°59.56′ N40°54.98′ L-30, H-10-12 MAA FL450 FL180 289 (66) 41°0°, Z 114.4 ACO ===== 112.7 CXR ==== W81°12.09′ W80°24.97′ N41°06.47" N41°11.53' AKRON Chan 91 CHARDON HAGUD L-30, H-10 19 Chan 74 117.1 AIR 🛅 R-102 Chan 118 BELLAIRE Turboprops: Expect clearance to cross at 8,000'. Furbojets: Expect clearance to cross at 10,000′ 8 EC-1, 26 AUG 2010 to 23 SEP 2010 PLANNING INFORMATION VERTICAL NAVIGATION W81°34.66′ N41°18.34′ N41°50.55′-W82°37.38′ CANCR . . . . Aircraft Landing Coleman A. Young Muni, Oakland County Intl, Windsor, Oakland/Troy, Southwest, Livingston County: From over LLEEO INT via 330° heading. Expect radar vectors to ILEEO AKRON TRANSITION (ACO.LLEEO2): From over ACO VOR/DME via ACO R-309 and DXO JOHNSTOWN TRANSITION (JST. LLEEQ2): From over JST VORTAC via JST R-313 to HAGUD 00 INT, then via DJB R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. DRYER TRANSITION (DJB.LLEEO2): From over DJB VOR/DME via DJB R-330 to LLEEO INT. 27 PHILPSBURG TRANSITION (PSB.LLEEO2): From over PSB VORTAC via PSB R-289 and DJB . . . Aircraft Landing Willow Run, Ann Arbor Muni, Canton-Plymouth-Mettetal, Oakland 9 W82°12.83' N41°38.07′ R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. Thence . . . . Selfridge ANGB: From over LLEEO INT via 360° heading. Expect radar vectors to final PEJAE R-102-10000 ARRIVAL ROUTE DESCRIPTION SELFRIDGE ANGB COLEMAN A. YOUNG MUNI WINDSOR -8-065 113.6 DJB ::: W82°09.72′ L-30, H-10 N41°21.48′ Chan 83 DRYER OAKLAND/ TROY R-130 to LLEEO INT. Thence OAKIAND COUNTY NTL 113.4 DXO =::= CANTON PLYMOUTH **♦** METTETAL WILLOW DETROIT Z N Chan 81 OAKLAND SOUTHWEST 🔷 13.1 vwv :: I final approach course. WATERVILLE ANN ARBOR 🗘 Chan 78 LIMINGSTON Thence. Thence.

ARRIVAL

approach course.



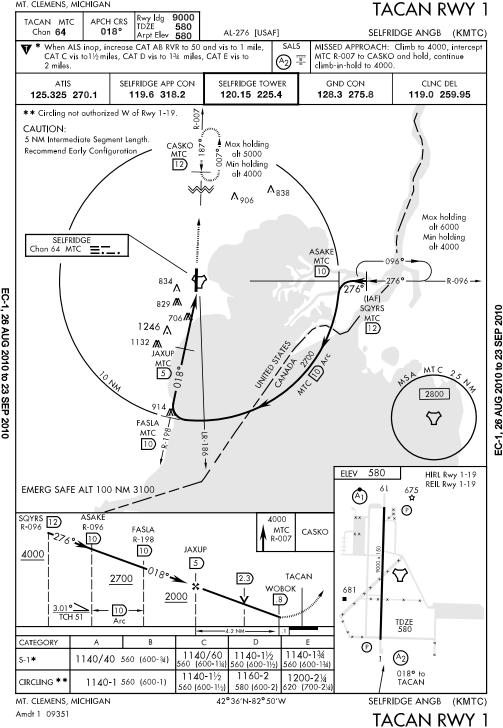
LANSING TRANSITION (LAN.SPRTN3): From over LAN VORTAC via LAN R-096 to SPRTN INT. Thence . . . .

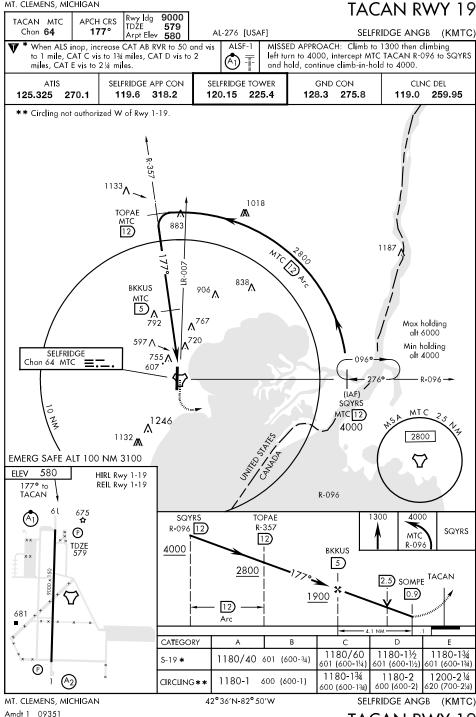
. . . . Aircraft landing: DET, PTK, VLL, D98, MTC, ARB, YIP, ONZ, 1D2, TTF, Y47, 36MI, OZW, 3TE, YQG: From over SPRTN INT via DXO R-323

to PARKY INT. Thence . . . .

. . . . Expect radar vectors to final approach course.

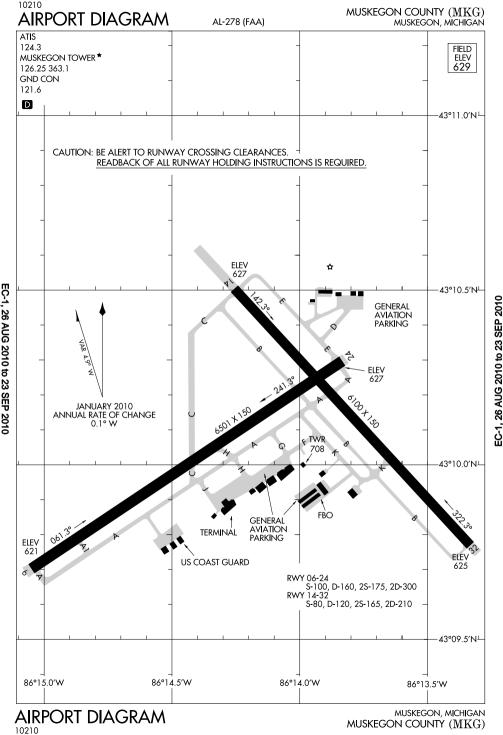
NOTE: Chart not to scale.





EC-1, 26 AUG 2010 to 23 SEP 2010

MT. CLEMENS, MICHIGAN



CHICAGO

### MICHIGAN

MIISKEGON CO (MKG) 4 S UTC-5(-4DT) N43°10.13' W86°14.26'

RWY 06: REIL, VASI(V4L)-GA 3.0° TCH 45', Trees. RWY 24: MALSR, VASI(V4L)-GA 3.0° TCH 51', Tree. RWY 14-32: H6100X150 (ASPH-PFC) S-80, D-120, 2S-165,

RWY 14: REIL, PAPI(P4L)-GA 3.0° TCH 45'.

FUEL 100LL, JET A OX 2 Class I, ARFF Index A NOTAM FILE MKG RWY 06-24: H6501X150 (ASPH-PFC) S-100, D-160, 2S-175, 2D-300 HIRL

ß

Residential

H-5E. 10F. L-28I IAP. AD Residential ദേശ് C3 Ġ

RWY 32: MALSR. Tree. RUNWAY DECLARED DISTANCE INFORMATION RWY 06: TORA-6501 TODA-6501 ASDA-6501 LDA-6501 RWY 24: TORA-6501 TODA-6501 ASDA-6501 LDA-6501

32-CTAF, Ldg fee.

NM. ILS 109.9

963 S2

NAPOLEON NAPOLEON

ILS/DME 109.5

S4

2D-210 HIRL

629 B

AIRPORT REMARKS: Attended 1100-0200Z±, other hrs call 231-798-2126. Rwy 14-32 CLOSED between 0400Z‡ and

1100Z± daily. Deer and birds on and invof of arpt. 24 hr PPR for unscheduled air carrier ops with more than 30 passenger seats

between 0400-11007±, call airport manager 231-798-4596. After hours 231-798-1329. VASI Rwy 06, Rwy 24, PAPI Rwy 14 opr continuously. When twr clsd, ACTIVATE HIRL Rwy 06-24 and Rwy 14-32, REIL Rwy 06 and Rwy 14, MALSR Rwy 24 and Rwy

WEATHER DATA SOURCES: ASOS (231) 798-1317, HIWAS 115.2 MKG. COMMUNICATIONS: CTAF 126.25 ATIS 124.3 UNICOM 122.95 RCO 122.5 (LANSING RADIO) R APP/DEP CON 118.2 North of V-2. 119.8 South of V-2.

TOWER 126.25 (1100-0400Z±) GND CON 121.6 AIRSPACE: CLASS D svc 1100-0400Z‡ other times CLASS E. TRSA svc ctc APP CON within 20 NM.

(R) CHICAGO CENTER APP/DEP CON 132.27 (0400-1100Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE MKG.

(L) VORTACW 115.2 MKG Chan 99 N43°10.16′ W86°02.36′ 271° 8.7 NM to fld. 659/1W.

MUSKO NDB (LOM) 219 MK N43°07.27' W86°10.12' 316°4.2 NM to fld. Unmonitored. LOM unusable byd 10

Rwy 32.

Class IE. LOM MUSKO NDB. LOM unusable byd 10 NM. LOC BC unusable byd 12° left of course byd 20° right of course. Unmonitored when twr clsd.

Rwy 24. Class IB. LOC only. Unmonitored when twr clsd.

Chan 32

I-CJH

cones; dsplcd thids marked with three 3' yellow cones each side of rwy.

AIRPORT REMARKS: Attended continuously. Rwy 09-27 marked with yellow tires.

VAN WAGNEN (6H4) 5W UTC-5(-4DT) N42°09.39' W84°20.06'

RWY 27: P-line.

(See REED CITY)

ASR (1100-0400Z‡) MUSKO N43°07.27′ W86°10.12′

I-MKG

NOTAM FILE LAN RWY 09-27: 2740X200 (TURF) RWY 09: Thid dspicd 1200', Road.

RWY 15-33: 2500X160 (TURF) RWY 15: Thid dsplcd 290'. Road.

COMMUNICATIONS: CTAF 122.9

RWY 09: Trees.

NARTRON FLD

NOTAM FILE LAN RWY 09-27: 2105X55 (TURF) LIRL

COMMUNICATIONS: CTAF 122.9

NOTAM FILE MKG.

NDB (LOM) 219 MK 316° 4.2 NM to Muskegon Co. Unmonitored. Unusable byd 10 NM.

(3NP) 1 NW UTC-5(-4DT) N42°10.25′ W84°15.58′

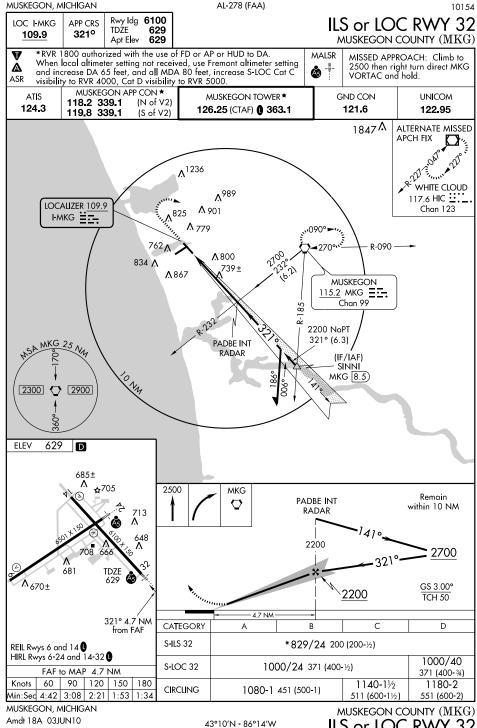
RWY 27: Trees.

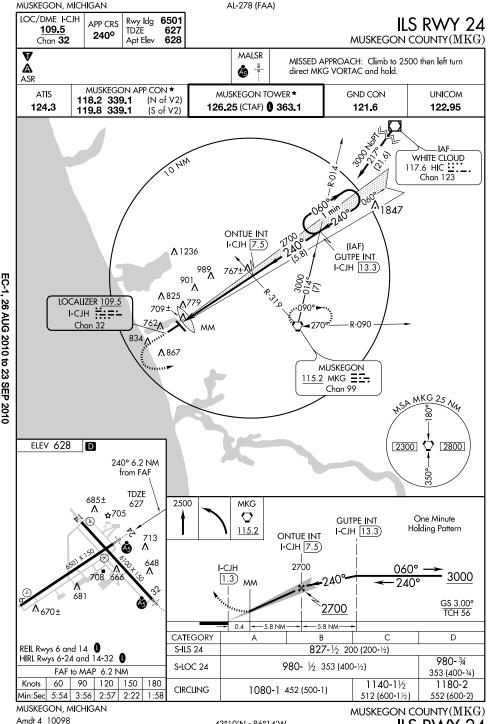
RWY 33: Thid dspicd 550'. Trees. AIRPORT REMARKS: Attended irregularly. Oil tanks S of arpt. Ultralight ops in grass W of Rwy 15-33. Rwy 33 +11' parked vehicles at the thid and buildings 150' distance. Rwy 09-27 and Rwy 15-33 marked with 3' yellow

CHICAGO L-281

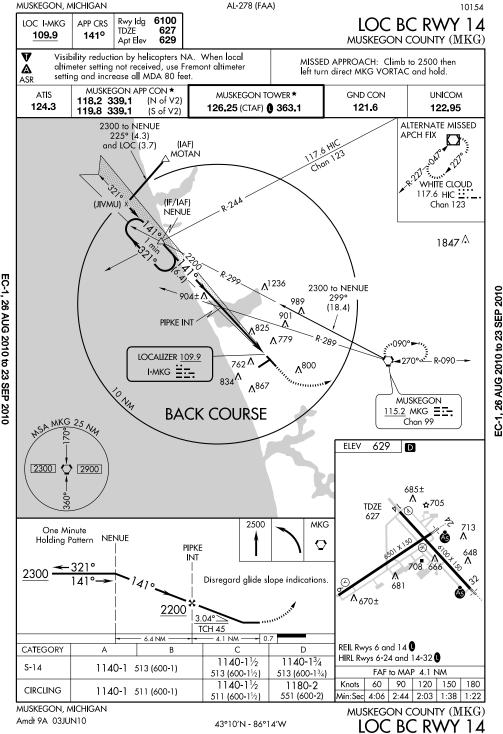
DETROIT

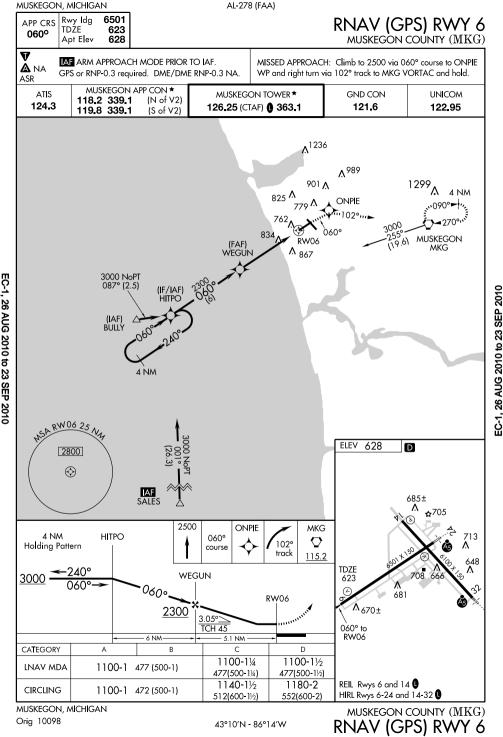
DETROIT





ILS RWY 24





MUSKEGON COUNTY (MKG)

EC-1, 26 AUG 2010 to 23 SEP 2010

Baro-VNAV NA when using Fremont altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Fremont altimeter setting and increase all DA 65 feet and all MDA 80 feet, increase LPV all Cats, LNAV/VNAV all Cats, LNAV Cats C and D, and

V MISSED APPROACH: Δ Climb to 2700 direct SINNI and hold. Circling Cat C visibility 1/4 mile. VDP NA when using Fremont altimeter setting. MUSKEGON APP CON ★ ATIS MUSKEGON TOWER \* GND CON UNICOM 118.2 339.1 (N of V2) 124.3 121.6 122.95 126.25 (CTAF) 0 363.1 119.8 339.1 (S of V2) SA RW 14 25 Ny WHITE CLOUD 2500 (IAF) HIC -256° MOTAN (31.61 2900 Procedure NA for arrivals **(** 87° at HIC VOR/DME via V26 southeast bound. (IF/IAF) NENUE Procedure NA for arrivals on MKG VORTAC airway radials 270 CW 353. (FAF) , PIPKE 1299<sub>^</sub> MUSKEGON MKG 834 MISSED APCH FIX ELEV 629 D 4 NM 141° to SINNI **BULLY** RW14 2700 SINNI 4 NM NENUE Holding Pattern 685± PIPKE Δ **☆**705 **TDZE** 2200 \*1.6 NM to 627 RW14 713 ۸ RW14 GS 3.00° 648 2200 TCH 45 \* LNAV only 3.1 NM 6.4 NM 1.6 ۸ CATEGORY D 681 Λ<sub>670±</sub> IPV 877-3/4 DA 250 (300-3/4) LNAV/ DA 1079-11/2 452 (500-11/2) VNAV 1180-13/4 1180-11/2 LNAV MDA 1180-1 553 (600-1) 553 (600-11/2) 553 (600-134) 1180-11/2 1180-2 REIL Rwys 6 and 14 CIRCLING 1180-1 551 (600-1) HIRL Rwys 6-24 and 14-32 **1** 

MUSKEGON, MICHIGAN

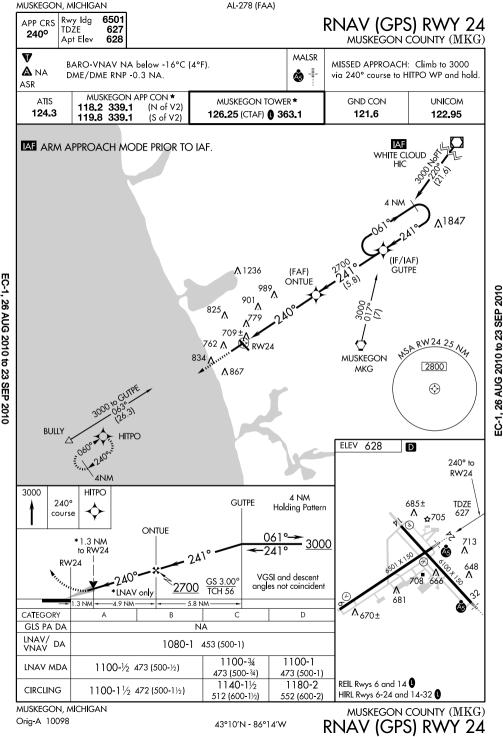
MUSKEGON COUNTY (MKG) 43°10'N - 86°14'W RNAV (GPS) RW

Amdt 1 10098

EC-1, 26 AUG 2010 to 23 SEP 2010

551 (600-2)

551 (600-11/2)

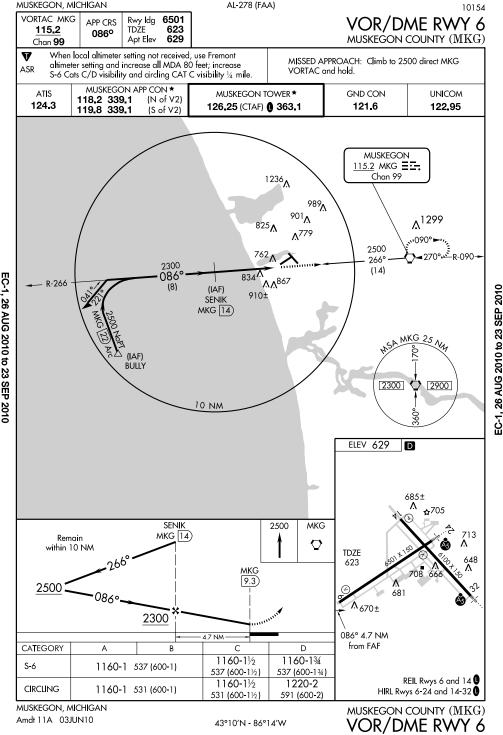


MUSKEGON, MICHIGAN Amdt 1 10098

EC-1, 26 AUG 2010 to 23 SEP 2010

MUSKEGON COUNTY (MKG)
RNAV (GPS) RWY 32

Amdt 20 10098



MICHIGAN 186

NEWBERRY N46°18.75′ W85°27.81′

869 B FUEL 100LL NOTAM FILE ERY

11 and Rwy 29 and windcone-CTAF.

NEWBERRY RCO 122.4 (GREEN BAY RADIO) RADIO AIDS TO NAVIGATION: NOTAM FILE ERY.

COMMUNICATIONS: CTAF/UNICOM 122.8

W85°27.81'

RWY 11: REIL, PAPI(P4L)—GA 3.0° TCH 25. Trees. RWY 29: REIL, PAPI(P4L)-GA 3.0° TCH 35', Trees.

AIRPORT REMARKS: Attended Mon-Fri 1330-2100Z‡. For sycs other

times call 906-293-3703. Rwy 04-22 CLOSED Nov-Mar and

when snow covered. Rwy 04-22 marked with 3' vellow cones. ACTIVATE MIRL Rwv 11-29: REIL Rwv 11 and Rwv 29: PAPI Rwv

NEWBERRY (T) VORW/DME 108.2 ERY Chan 19 N46°18.75'

at fld. 869/6W. AWOS-3. VOR/DME unmonitored Mon-Fri 2130-1230Z‡ and unmonitored

WEATHER DATA SOURCES: AWOS-3 108.2 ERY (906) 293-2979.

RWY 11-29: H4304X75 (ASPH) S-8

RWY 04-22: 2856X150 (TURF) RWY 04: Thid dspled 936', Trees.

(T) V0RW/DMF 108 2 FRY Chan 19 at Luce Co 869/6W AW0S-3 VOR/DME unmonitored Mon-Fri 2130-1230Z± and unmonitored Sat-Sun. RCO 122.4 (GREEN BAY RADIO)

MIRL

NOTAM FILE FRY

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**GREEN BAY** 

I-31B

**GREEN BAY** 

IAP

DETROIT COPTER

L-28J. A

(ERY) 3 SE UTC-5(-4DT) N46°18.66′ W85°27.43′

L-31B

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OAKLAND SOUTHWEST (Y47) 1 SW UTC-5(-4DT) N42°30.19′ W83°37.42′ S4

NEW HUDSON

**NEWBERRY** LUCE CO

> RWY 08-26: H3128X40 (ASPH) LIRI RWY 08: VASI(V2R)-GA 3.0°. Thid dsplcd 1266'. Brush.

FUEL 100LL NOTAM FILE LAN

RWY 26: VASI(V2L)-GA 3.0°. Thid dsplcd 864'. Trees.

AIRPORT REMARKS: Attended 1330Z‡-dusk, Occasional 4"-6" drop off

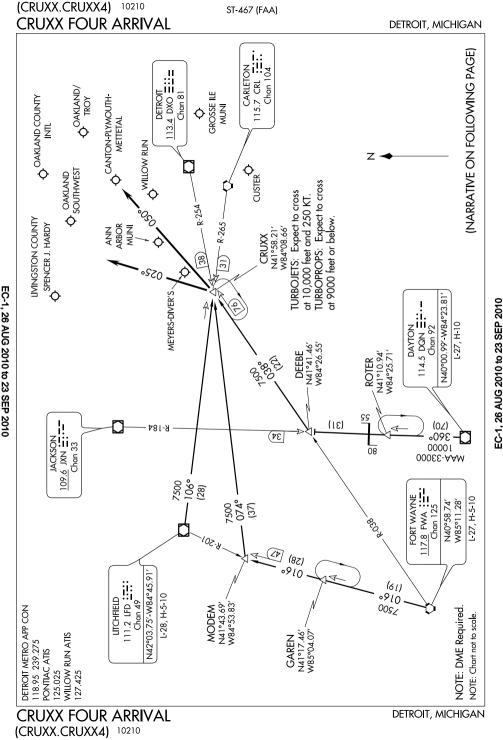
on rwy and twy shoulders. Trees and brush in primary surface 70'-120' left and right. ACTIVATE LIRL Rwy 08-26 CTAF 5 times.

COMMUNICATIONS: CTAF/UNICOM 122.7 (R) DETROIT APP/DEP CON 127.5 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. SALEM (L) VORTAC 114.3 SVM Chan 90 N42°24.53'

W83°35.65' 350° 5.8 NM to fld. 950/3W.

IAP

**NEWMAN'S** (See KALAMAZOO)



## ARRIVAL DESCRIPTION

DAYTON TRANSITION (DQN.CRUXX4): From over DQN VOR/DME via DQN R-360 and JXN R-184 to DEEBE INT and FWA R-038 to CRUXX INT. Thence . . . . FORT WAYNE TRANSITION (FWA.CRUXX4): From over FWA VORTAC via FWA R-016 to MODEM INT and DXO R-254 to CRUXX INT. Thence . . . . LITCHFIELD TRANSITION (LFD.CRUXX4): From over LFD VORTAC via LFD R-106 to CRUXX INT. Thence . . . .

.... Aircraft landing Y47, PTK, OMI7, ØZW, ONZ, 1D2, TTF, VLL: From over CRUXX INT via 025° heading.

. . . . Aircraft landing YIP or ARB: From over CRUXX INT via 050° heading.

Expect radar vector to final approach course.

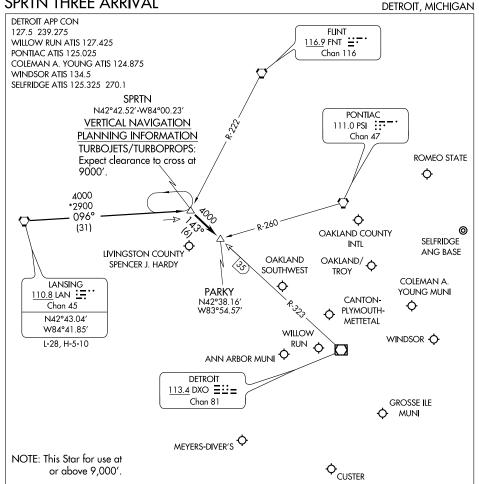
NOTE: Chart not to scale.

EC-1, 26 AUG 2010 to 23 SEP 2010

### ARRIVAL DETROIT, MICHIGAN 118.95 363.2 PONTIAC ATIS 125.025 124.875 WINDSOR ATIS 134.5 SELFRIDGE ATIS 125.325 270.1 127.425 ANN ARBOR ATIS 134.55 NOTE: RADAR REQUIRED DETROIT APP CON COLEMAN A. YOUNG ATIS WILLOW RUN ATIS JOHNSTOWN L-29, H-10-12 W78°50.05′ N40°19.00′ Chan 77 115.5 PSB :::::. Chan 102 PHILPSBURG W77°59.56′ N40°54.98′ L-30, H-10-12 MAA FL450 FL180 289 (66) 41°0°, Z 114.4 ACO ===== 112.7 CXR ==== W81°12.09′ W80°24.97′ N41°06.47" N41°11.53' AKRON Chan 91 CHARDON HAGUD L-30, H-10 19 Chan 74 117.1 AIR 🛅 R-102 Chan 118 BELLAIRE Turboprops: Expect clearance to cross at 8,000'. Furbojets: Expect clearance to cross at 10,000′ 8 EC-1, 26 AUG 2010 to 23 SEP 2010 PLANNING INFORMATION VERTICAL NAVIGATION W81°34.66′ N41°18.34′ N41°50.55′-W82°37.38′ CANCR . . . . Aircraft Landing Coleman A. Young Muni, Oakland County Intl, Windsor, Oakland/Troy, Southwest, Livingston County: From over LLEEO INT via 330° heading. Expect radar vectors to ILEEO AKRON TRANSITION (ACO.LLEEO2): From over ACO VOR/DME via ACO R-309 and DXO JOHNSTOWN TRANSITION (JST. LLEEQ2): From over JST VORTAC via JST R-313 to HAGUD 00 INT, then via DJB R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. DRYER TRANSITION (DJB.LLEEO2): From over DJB VOR/DME via DJB R-330 to LLEEO INT. 27 PHILPSBURG TRANSITION (PSB.LLEEO2): From over PSB VORTAC via PSB R-289 and DJB . . . Aircraft Landing Willow Run, Ann Arbor Muni, Canton-Plymouth-Mettetal, Oakland 9 W82°12.83' N41°38.07′ R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. Thence . . . . Selfridge ANGB: From over LLEEO INT via 360° heading. Expect radar vectors to final PEJAE R-102-10000 ARRIVAL ROUTE DESCRIPTION SELFRIDGE ANGB COLEMAN A. YOUNG MUNI WINDSOR -8-065 113.6 DJB ::: W82°09.72′ L-30, H-10 N41°21.48′ Chan 83 DRYER OAKLAND/ TROY R-130 to LLEEO INT. Thence OAKIAND COUNTY NTL 113.4 DXO =::= CANTON PLYMOUTH **♦** METTETAL WILLOW DETROIT Z N Chan 81 OAKLAND SOUTHWEST 🔷 13.1 vwv :: II final approach course. WATERVILLE ANN ARBOR 🗘 Chan 78 LIMINGSTON Thence. Thence.

ARRIVAL

approach course.



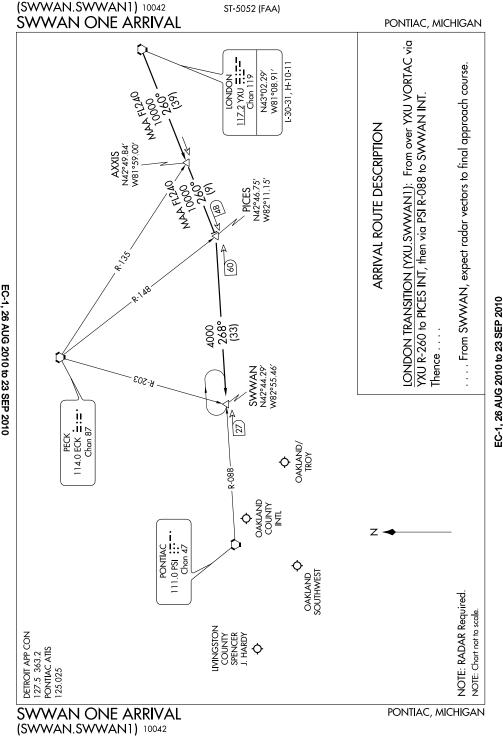
LANSING TRANSITION (LAN.SPRTN3): From over LAN VORTAC via LAN R-096 to SPRTN INT. Thence . . . .

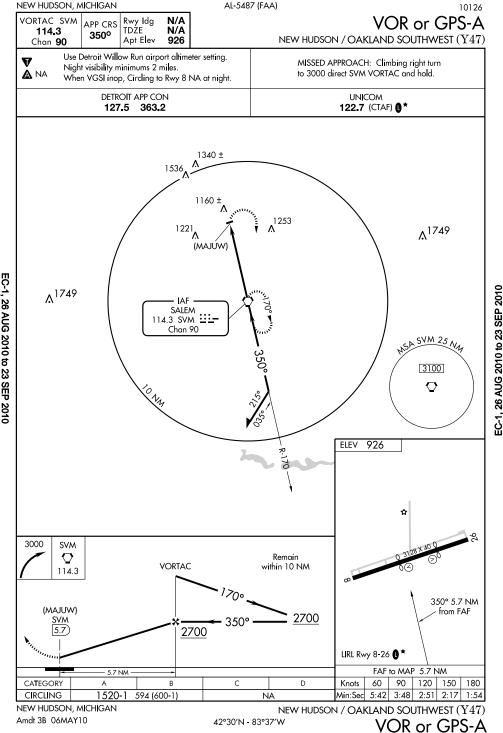
. . . . Aircraft landing: DET, PTK, VLL, D98, MTC, ARB, YIP, ONZ, 1D2, TTF, Y47, 36MI, OZW, 3TE, YQG: From over SPRTN INT via DXO R-323

to PARKY INT. Thence . . . .

. . . . Expect radar vectors to final approach course.

NOTE: Chart not to scale.





MICHIGAN 186

NEWBERRY N46°18.75′ W85°27.81′

869 B FUEL 100LL NOTAM FILE ERY

11 and Rwy 29 and windcone-CTAF.

NEWBERRY RCO 122.4 (GREEN BAY RADIO) RADIO AIDS TO NAVIGATION: NOTAM FILE ERY.

COMMUNICATIONS: CTAF/UNICOM 122.8

W85°27.81'

RWY 11: REIL, PAPI(P4L)—GA 3.0° TCH 25. Trees. RWY 29: REIL, PAPI(P4L)-GA 3.0° TCH 35', Trees.

AIRPORT REMARKS: Attended Mon-Fri 1330-2100Z‡. For sycs other

times call 906-293-3703. Rwy 04-22 CLOSED Nov-Mar and

when snow covered. Rwy 04-22 marked with 3' vellow cones. ACTIVATE MIRL Rwv 11-29: REIL Rwv 11 and Rwv 29: PAPI Rwv

NEWBERRY (T) VORW/DME 108.2 ERY Chan 19 N46°18.75'

at fld. 869/6W. AWOS-3. VOR/DME unmonitored Mon-Fri 2130-1230Z‡ and unmonitored

WEATHER DATA SOURCES: AWOS-3 108.2 ERY (906) 293-2979.

RWY 11-29: H4304X75 (ASPH) S-8

RWY 04-22: 2856X150 (TURF) RWY 04: Thid dspled 936', Trees.

(T) V0RW/DMF 108 2 FRY Chan 19 at Luce Co 869/6W AW0S-3 VOR/DME unmonitored Mon-Fri 2130-1230Z± and unmonitored Sat-Sun. RCO 122.4 (GREEN BAY RADIO)

MIRL

NOTAM FILE FRY

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**GREEN BAY** 

I-31B

**GREEN BAY** 

IAP

DETROIT COPTER

L-28J. A

(ERY) 3 SE UTC-5(-4DT) N46°18.66′ W85°27.43′

L-31B

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OAKLAND SOUTHWEST (Y47) 1 SW UTC-5(-4DT) N42°30.19′ W83°37.42′ S4

NEW HUDSON

**NEWBERRY** LUCE CO

> RWY 08-26: H3128X40 (ASPH) LIRI RWY 08: VASI(V2R)-GA 3.0°. Thid dsplcd 1266'. Brush.

FUEL 100LL NOTAM FILE LAN

RWY 26: VASI(V2L)-GA 3.0°. Thid dsplcd 864'. Trees.

AIRPORT REMARKS: Attended 1330Z‡-dusk, Occasional 4"-6" drop off

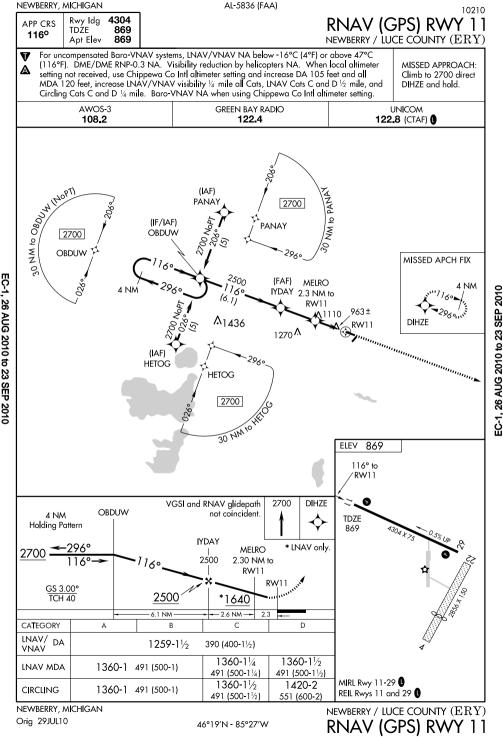
on rwy and twy shoulders. Trees and brush in primary surface 70'-120' left and right. ACTIVATE LIRL Rwy 08-26 CTAF 5 times.

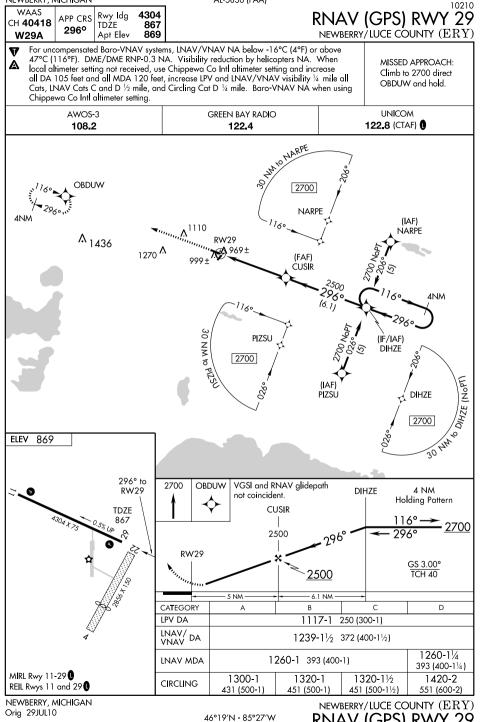
COMMUNICATIONS: CTAF/UNICOM 122.7 (R) DETROIT APP/DEP CON 127.5 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. SALEM (L) VORTAC 114.3 SVM Chan 90 N42°24.53'

W83°35.65' 350° 5.8 NM to fld. 950/3W.

IAP

**NEWMAN'S** (See KALAMAZOO)





AL-5836 (FAA)

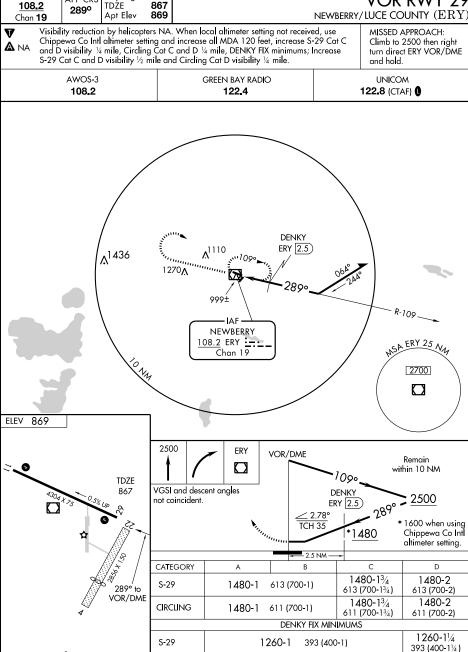
NEWBERRY, MICHIGAN

EC-1, 26 AUG 2010 to 23 SEP 2010

Amdt 12 29JUL10

EC-1, 26 AUG 2010 to 23 SEP 2010

VOR RWY 11



NEWBERRY, MICHIGAN Amdt 12 29JUL10

MIRL Rwy 11-29 0

REIL Rwys 11 and 29 0

EC-1, 26 AUG 2010 to 23 SEP 2010

NEWBERRY/LUCE COUNTY (ERY) VOR RWY 29

1420-2

551 (600-2)

1320-11/2

451 (500-11/2)

EC-1, 26 AUG 2010 to 23 SEP 2010

1300-1

431 (500-1)

CIRCLING

1320-1

451 (500-1)

COMMUNICATIONS: CTAF 122.9

**COMMUNICATIONS: CTAF 122.9** 

**OLSTE** N43°27.69′ W84°10.79′

(See PONTIAC)

(See WEIDMAN)

(See TROY)

(See HART/SHELBY)

(See NEW HUDSON)

OAKLAND CO INTL

OAKLAND/TROY

OJIBWA AIRPARK

OCEANA CO

OAKLAND SOUTHWEST

NOTAM FILE LAN RWY 09-27: 2995X100 (TURF) LIRL RWY 09: Thid dspicd 998'. Tree.

(33C) 1 W UTC-5(-4DT) N43°04.94' W86°05.69'

NOTAM FILE MBS.

RWY 27: Thid dsplcd 796'. Fence. AIRPORT REMARKS: Attended irregularly. Deer on and invof rwys. Rwy 09-27 rough with mole hills. For LIRL Rwy 09-27

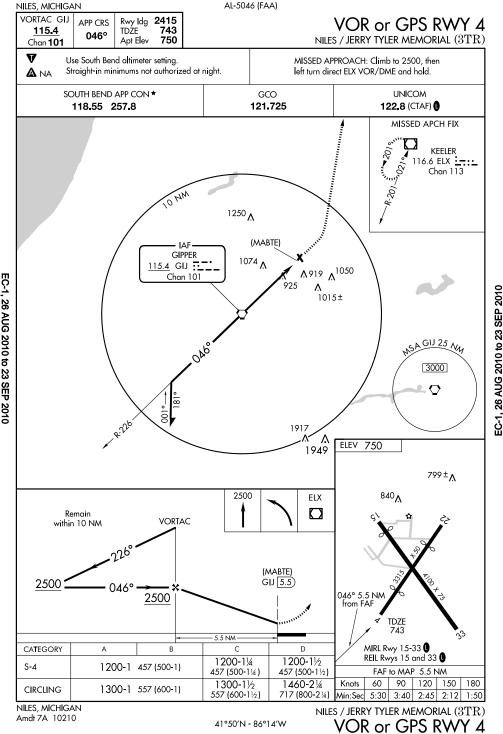
NDB (LOM) 257 MB 050° 6.1 NM to MBS Intl. Unmonitored, Unusable byd 10 NM and between 150°-180°.

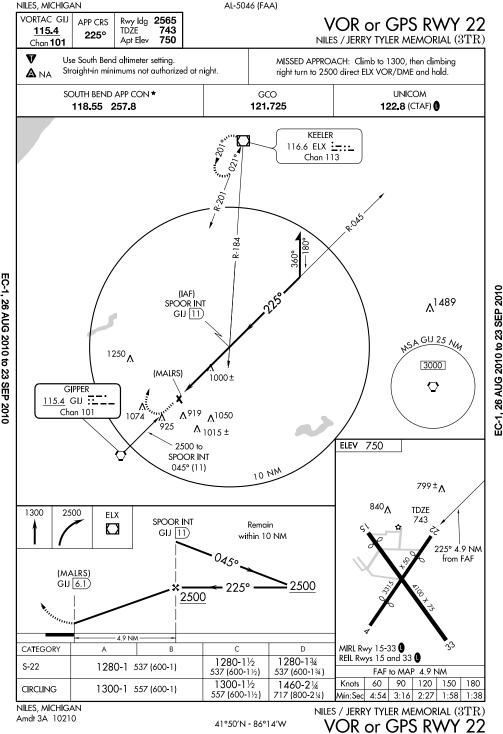
call arpt manager 616-837-6282. Rwy 09-27 and dsplcd thlds marked with 3' yellow cones.

CHICAGO

DETROIT

JABLONSKI





MICHIGAN 188

ONAWAY LEO E. GOETZ CO

ONONDAGA **GORILLA** 

980

cones

830 B NOTAM FILE LAN RWY 15-33: H2600X60 (ASPH) MIRI

RWY 15. Road RWY 33. Trees RWY 03-21: 1400X100 (TURF)

COMMUNICATIONS: CTAF 122.9

(11J)

HELIPAD H1: 75X50 (TURF)

NOTAM FILE LAN

RWY 03: Trees

2 SW

RWY 21: Trees.

AIRPORT REMARKS: Unattended, Confirm snow removal and winter conditions phone 989-734-2216; or arct manager

residence 989-734-4309, 11' p-line 750' from thld 125' R of centerline, Rwv 03-21 marked with 3' vellow

HELIPORT REMARKS: Attended irregularly. Marked with yellow steel plates. 45' trees 180'W of pad.

MIRL

(Y96) 1 N UTC-5(-4DT) N45°22.25′ W84°13.50′

0.7% up S

UTC-5(-4DT) N42°25.50′ W84°34.68′

Not insp

N46°50.73′ W89°22.03′

**GREEN BAY** 

1 - 141

IAP

DETRIOT

LAKE HIIRON

COMMUNICATIONS: CTAF 122.9 ONTONAGON CO-SCHUSTER FLD (OGM) 3 W UTC-5(-4DT)

RWY 17: REIL, PAPI(P2L) - GA 3.45° TCH 25', Trees.

NOTAM FILE GRB

RWY 35: REIL, PAPI(P2L) - GA 3.45° TCH 25', Trees. AIRPORT REMARKS: Unattended, 24 hr self serve fuel with VISA or Master Charge, Deer and birds on and invof arpt, MIRL Rwv 17-35

ACTIVATE-CTAF.

FIIFI 10011

RWY 17-35: H3500X75 (ASPH-AFSC) S-12

and PAPI Rwv 17 and Rwv 35 dusk-0400Z1; after 0400Z1 COMMUNICATIONS: CTAF 122 9

(R) MINNEAPOLIS CENTER APP/DEP CON 127.2 RADIO AIDS TO NAVIGATION: NOTAM FILE IWD.

IRONWOOD (L) VORTACW 108.8 IWD Chan 25 N46°31.94' W90°07.55' 058° 36.6 NM to fld. 1230/1E.

HIWAS. NDB (MHW) 375 OGM N46°51.01′ W89°21.91′ at fld. Unmonitored NOTAM FILE GRB

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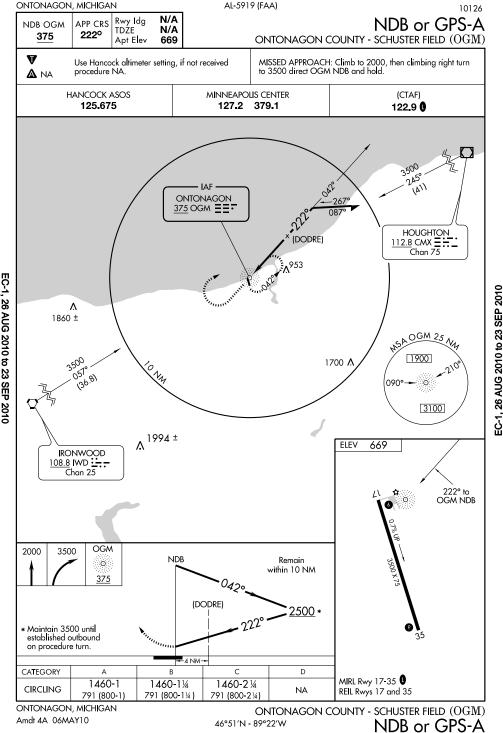
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33

OSCODA CO (See MIO)



LAKE HURON

CHICAGO

H-11A, L-31C

## MICHIGAN

OSCODA-WURTSMITH (OSC) 3 NW UTC-5(-4DT) N44°27.09′ W83°23.65′

S4

RWY 06-24: H11800X200 (ASPH-GRVD) S-155, D-330, 2S-175, 2D-550 HIRL

FUEL 100LL, JET A OX 2 NOTAM FILE OSC

RWY 06: PAPI(P4L)-GA 3.0° TCH 75'. Tree. RWY 24: MALSR. PAPI(P4L)-GA 3.0° TCH 72'.

AIRPORT REMARKS: Attended Mon-Fri dawn-dusk. During dalgt hrs tailwinds may exist over approach ends Rwy 06 and Rwy 24 simultaneously. Seagulls and migratory birds on and invof arpt. Be

HIRL Rwy 06-24, PAPI Rwy 06 and Rwy 24 and MALSR Rwy 24-CTAF.

alert for potential jet blast on Twy A invof losco ramp. ACTIVATE WEATHER DATA SOURCES: AWOS-3 116.1 ASP (989) 739-1310 COMMUNICATIONS: CTAF/UNICOM 123.0

MINNEAPOLIS CENTER APP/DEP CON 125.475 RADIO AIDS TO NAVIGATION: NOTAM FILE OSC. AU SABLE (H) VORW/DME 116.1 ASP Chan 108 N44°26.95'

W83°23.66' at fld. 625/7W. AWOS-3. ILS 108.5 I-LJU Rwy 24. LOC and Glide Slope unmonitored.

(See ZEELAND)

### OWOSSO COMMUNITY (RNP) 2 E

OTTAWA EXECUTIVE

### S4 FUEL 100LL NOTAM FILE RNP RWY 10-28: H4300X75 (ASPH) S-18 MIRL

RWY 10: REIL. PAPI(P4L)-GA 3.0° TCH 20'. Trees. RWY 28: REIL. PAPI(P4L)-GA 4.0° TCH 20'. Trees. RWY 18-36: 2599X260 (TURF)

RWY 18: Thid dspicd 396'. Bldg. RWY 36: Thid dspicd 990'. Trees.

RWY 06-24: 2483X130 (TURF)

RWY 06: PAPI(P4R)-GA 3.5° TCH 25'. Thid dsplcd 1057'. Trees.

RWY 24: Pole.

AIRPORT REMARKS: Attended 1400-2200Z‡. Rwy 06-24 and Rwy

18-36 CLOSED Dec 1 thru Mar 31 and when snow covered. Deer and birds on and invof arpt. Rwy 10-28 has numerous cracks. Rwy 06-24 and Rwy 18-36 marked with cones; Rwy 06; Rwy 18;

28—CTAF WEATHER DATA SOURCES: AWOS-3 118.025 (989)729-2967. COMMUNICATIONS: CTAF/UNICOM 123.0 FLINT RCO 122.3 (LANSING RADIO)

Rwy 36 dsplcd thids marked with 3 cones each side. ACTIVATE MIRL Rwy 10-28, PAPI Rwy 10 and 28 and REIL Rwy 10 and Rwy

R FLINT APP/DEP CON 128.55 (N/W of active rwy) 118.8 (E/S of active rwy) (1045-0430Z‡) CLEVELAND CENTER APP/DEP CON 126.75 (0430-1045Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE FNT.

FLINT (H) VORTACW 116.9 FNT Chan 116 N42°58.01′ W83°44.82′ 281° 17.3 NM to fld. 772/6W. COMM/NAV/WEATHER REMARKS: APP CON sectorization based upon Flint rwy usage.

PADGHAM FLD (See ALLEGAN)

PARCHMENT

TRIPLE H (2H4) 3N UTC-5(-4DT) N42°21.92′ W85°33.35′

NOTAM FILE LAN RWY 01-19: 2400X100 (TURF)

RWY 01: Thid dsplcd 400'. Tree. Rgt tfc. RWY 19: Thid dspicd 968'. Trees.

marked with yellow cones. Rwy 01-19 NSTD LIRL not for public use.

RWY 09-27: 2600X100 (TURF) RWY 09: Trees. Rgt tfc.

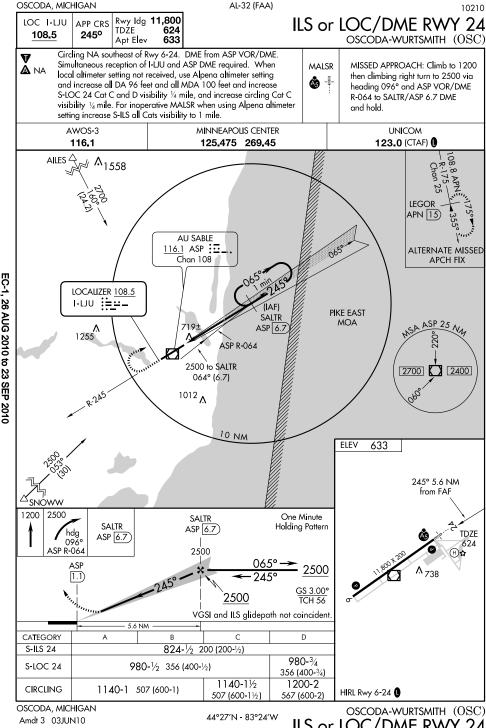
COMMUNICATIONS: CTAF: 122 9

RWY 27: Thid dspicd 1200'. Trees.

AIRPORT REMARKS: Attended irregularly. Deer invof arpt. Rwy 09-27, 80' trees along both rwy edges. Rwy 09-27 fence at west end. Rwy 01-19 and dsplcd thids marked with 3' yellow cones. Rwy 09-27 and dsplcd thid

03 C3

UTC-5(-4DT) N42°59.58' W84°08.31' DETROIT L-28J IAP Rwy 6-24: 2483 X 130 Rwy 10-28: 4300 X 75 an



ILS or LOC/DME RWY 24

OSCODA, MICHIGAN Amdt 1 03JUN10

EC-1, 26 AUG 2010 to 23 SEP 2010

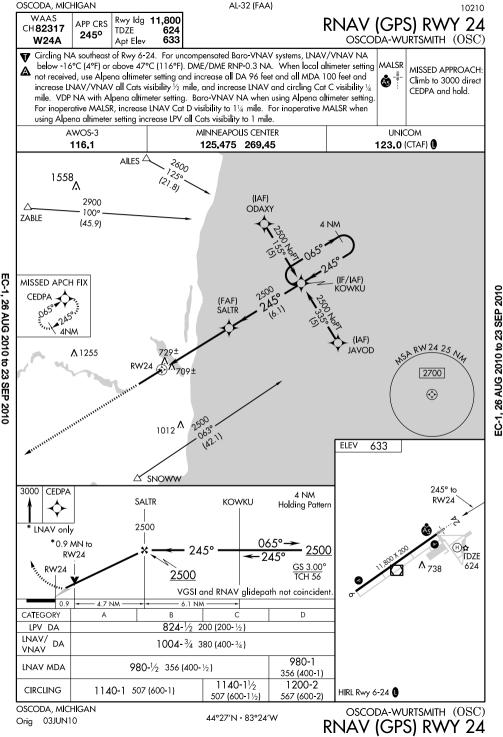
OSCODA-WURTSMITH (OSC) 44°27′N - 83°24′W RNAV (GPS) RWY 6

HIRL Rwy 6-24

EC-1, 26 AUG 2010 to 23 SEP 2010

567 (600-2)

507 (600-11/2)



VOR RWY 6

LAKE HURON

CHICAGO

H-11A, L-31C

## MICHIGAN

OSCODA-WURTSMITH (OSC) 3 NW UTC-5(-4DT) N44°27.09′ W83°23.65′

S4

RWY 06-24: H11800X200 (ASPH-GRVD) S-155, D-330, 2S-175, 2D-550 HIRL

FUEL 100LL, JET A OX 2 NOTAM FILE OSC

RWY 06: PAPI(P4L)-GA 3.0° TCH 75'. Tree. RWY 24: MALSR. PAPI(P4L)-GA 3.0° TCH 72'.

AIRPORT REMARKS: Attended Mon-Fri dawn-dusk. During dalgt hrs tailwinds may exist over approach ends Rwy 06 and Rwy 24 simultaneously. Seagulls and migratory birds on and invof arpt. Be

HIRL Rwy 06-24, PAPI Rwy 06 and Rwy 24 and MALSR Rwy 24-CTAF.

alert for potential jet blast on Twy A invof losco ramp. ACTIVATE WEATHER DATA SOURCES: AWOS-3 116.1 ASP (989) 739-1310 COMMUNICATIONS: CTAF/UNICOM 123.0

MINNEAPOLIS CENTER APP/DEP CON 125.475 RADIO AIDS TO NAVIGATION: NOTAM FILE OSC. AU SABLE (H) VORW/DME 116.1 ASP Chan 108 N44°26.95'

W83°23.66' at fld. 625/7W. AWOS-3. ILS 108.5 I-LJU Rwy 24. LOC and Glide Slope unmonitored.

(See ZEELAND)

### OWOSSO COMMUNITY (RNP) 2 E

OTTAWA EXECUTIVE

### S4 FUEL 100LL NOTAM FILE RNP RWY 10-28: H4300X75 (ASPH) S-18 MIRL

RWY 10: REIL. PAPI(P4L)-GA 3.0° TCH 20'. Trees. RWY 28: REIL. PAPI(P4L)-GA 4.0° TCH 20'. Trees. RWY 18-36: 2599X260 (TURF)

RWY 18: Thid dspicd 396'. Bldg. RWY 36: Thid dspicd 990'. Trees.

RWY 06-24: 2483X130 (TURF)

RWY 06: PAPI(P4R)-GA 3.5° TCH 25'. Thid dsplcd 1057'. Trees.

RWY 24: Pole.

AIRPORT REMARKS: Attended 1400-2200Z‡. Rwy 06-24 and Rwy

18-36 CLOSED Dec 1 thru Mar 31 and when snow covered. Deer and birds on and invof arpt. Rwy 10-28 has numerous cracks. Rwy 06-24 and Rwy 18-36 marked with cones; Rwy 06; Rwy 18;

28—CTAF WEATHER DATA SOURCES: AWOS-3 118.025 (989)729-2967. COMMUNICATIONS: CTAF/UNICOM 123.0 FLINT RCO 122.3 (LANSING RADIO)

Rwy 36 dsplcd thids marked with 3 cones each side. ACTIVATE MIRL Rwy 10-28, PAPI Rwy 10 and 28 and REIL Rwy 10 and Rwy

R FLINT APP/DEP CON 128.55 (N/W of active rwy) 118.8 (E/S of active rwy) (1045-0430Z‡) CLEVELAND CENTER APP/DEP CON 126.75 (0430-1045Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE FNT.

FLINT (H) VORTACW 116.9 FNT Chan 116 N42°58.01′ W83°44.82′ 281° 17.3 NM to fld. 772/6W. COMM/NAV/WEATHER REMARKS: APP CON sectorization based upon Flint rwy usage.

PADGHAM FLD (See ALLEGAN)

PARCHMENT

TRIPLE H (2H4) 3N UTC-5(-4DT) N42°21.92′ W85°33.35′

NOTAM FILE LAN RWY 01-19: 2400X100 (TURF)

RWY 01: Thid dsplcd 400'. Tree. Rgt tfc. RWY 19: Thid dspicd 968'. Trees.

marked with yellow cones. Rwy 01-19 NSTD LIRL not for public use.

RWY 09-27: 2600X100 (TURF) RWY 09: Trees. Rgt tfc.

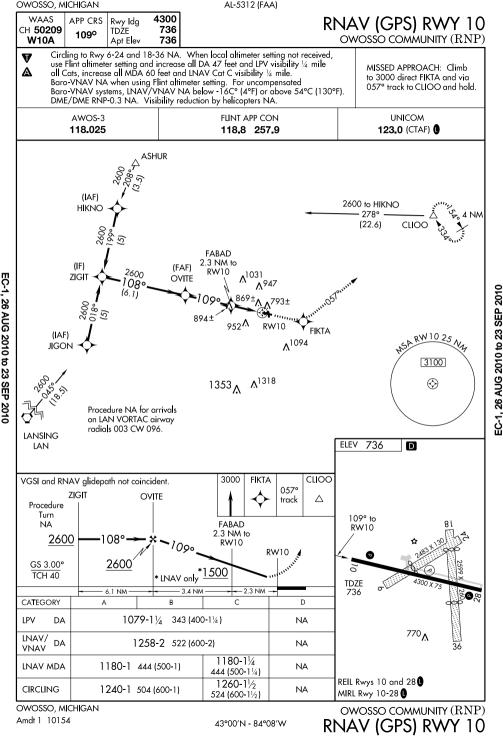
COMMUNICATIONS: CTAF: 122 9

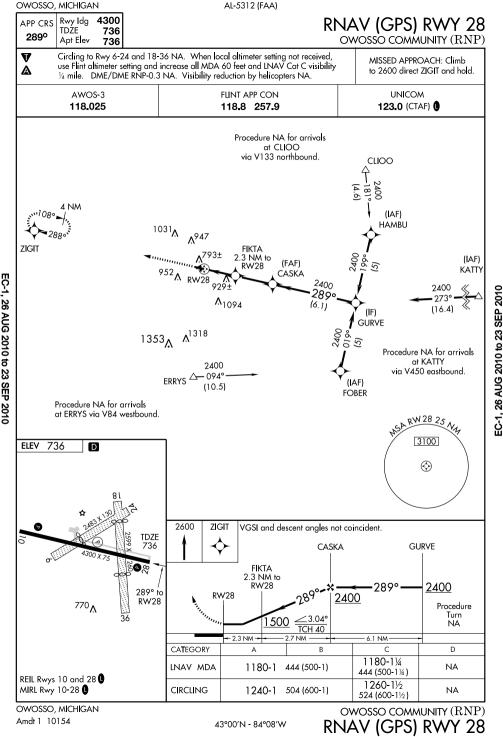
RWY 27: Thid dspicd 1200'. Trees.

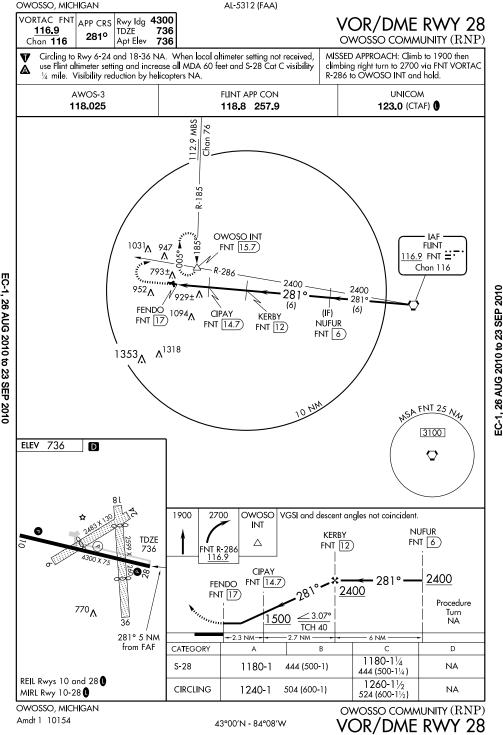
AIRPORT REMARKS: Attended irregularly. Deer invof arpt. Rwy 09-27, 80' trees along both rwy edges. Rwy 09-27 fence at west end. Rwy 01-19 and dsplcd thids marked with 3' yellow cones. Rwy 09-27 and dsplcd thid

03 C3

UTC-5(-4DT) N42°59.58' W84°08.31' DETROIT L-28J IAP Rwy 6-24: 2483 X 130 Rwy 10-28: 4300 X 75 an







PARK TOWNSHIP (See HOLLAND) PAUL C. MILLER-SPARTA (See SPARTA) **PAW PAW** ALMENA 3 NE UTC-5(-4DT) N42°15.15' W85°51.02' (2C5)NOTAM FILE LAN 7/10 RWY 09-27: 3300X100 (TURF) RWY 09: Thid dspicd 1085'. Trees. RWY 27: Thid dspicd 1159'. Trees. AIRPORT REMARKS: Attended irregularly. Occasional deer on rwy. Rwy 09-27 and dsplcd thids marked with 3' yellow

MICHIGAN

cones; dsplcd thids marked with three 3' yellow cones on each side of rwy. COMMUNICATIONS: CTAF 122.9

190

PRFAAYF

PELLSTON RGNL ARPT OF EMMET CO

N45°34.26′ W84°47.80′

RWY 14-32: H6513X150 (ASPH-GRVD)

RWY 05-23: H5401X150 (ASPH-GRVD)

RUNWAY DECLARED DISTANCE INFORMATION

HIRI

S4

RWY 32: MALSR. Tree.

2D/2D2-120 MIRL

2D/2D2-120

RWY 05:

RWY 14:

RWY 23:

RWY 32-

(See TOPINABEE) PECK N43°15.35′ W82°43.08′

(H) VORTAC 114 O FCK Chan 87

FUEL 100LL, JET A

RWY 14: REIL, VASI(V4L)-GA 3.0° TCH 52', Trees.

RWY 05: REIL. VASI(V4R)-GA 3.0° TCH 48'. Trees.

RWY 23: REIL, VASI(V4L)-GA 3.0° TCH 45', Road.

AIRPORT REMARKS: Attended 1100-0400Z±, Arpt CLOSED to

unscheduled air carriers with more than 30 passenger seats except by 24 hr PPR. Deer and gulls occasionally on and invof arpt. Be alert for snow removal equipment and activity on and invof rwys during winter months. Twy B1 and E1 CLOSED 1 Nov

NOTAM FILE LAN. RCO 122.1R 114.0T (LANSING RADIO)

289° 16.7 NM to Marlette, 810/7W. HIWAS.

(PLN)

TORA-5395 TODA-5395 ASDA-5395 LDA-5395

TORA-6512 TODA-6512 ASDA-6512 LDA-6512

TORA-5395 TODA-5395 ASDA-5395 LDA-5395

TORA-6512 TODA-6512 ASDA-6512 LDA-6512

1 NW

Class I. ARFF Index A

D-65, 2S-82, 2D-82,

D-65, 2S-82, 2D-82,

UTC-5(-4DT)

NOTAM FILE PLN

C G G 3

G (3 €3 €3

G<sup>G</sup>G €3 €3 **~**3 C3 €3 €3

CHICAGO

DETROIT

LAKE HURON

H-2K, L-31B

IAP

Ø

Ø

€3

€3

-€33

H-10G, 11A, L-28J

°G G 03 03 03 C3 €3 G G €3 €3 and 14 and 23 and MALSR Rwy 32 preset low ints 0530-1000Z‡, after 1000Z‡ to increase ints and ACTIVATE—CTAF. Rwy 05 and Rwy 23 REIL lctd 100' from their respective apch ends. Ldg fee (waived with fuel

purchase). WEATHER DATA SOURCES: ASOS 119.025 (231) 539-7700. HIWAS 111.8 PLN. COMMUNICATIONS: CTAF/UNICOM 123.0

thru 15 Apr. MIRL Rwy 05-23 and HIRL Rwy 14-32; REIL Rwys 05

RCO 122.3 (LANSING RADIO) RCO 123.6 122.2 (LANSING RADIO) MINNEAPOLIS CENTER APP/DEP CON 134.6 RADIO AIDS TO NAVIGATION: NOTAM FILE PLN.

(L) VORTACW 111.8 PLN Chan 55 N45°37.84′ W84°39.85′ 243° 6.6 NM to fld. 840/6W. HIWAS.

VOR unusable 301°-339°. Rwy 32. ILS 111.3 I-PLN Class IE.

PETERSBURG **GRADOLPH FLD** (88G)

### 2 NW UTC-5(-4DT) N41°55.19' W83°44.10' 673 B S4 NOTAM FILE LAN

RWY 09-27: 2306X110 (TURF) LIRL (NSTD)

RWY 09: Thid dspicd 310'. Trees.

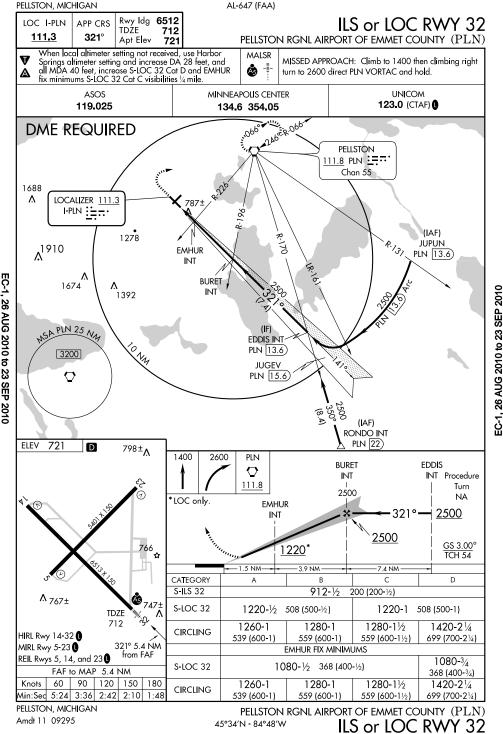
## RWY 27: Thid dsplcd 230'. P-line. AIRPORT REMARKS: Attended continuously. For LIRL Rwy 09-27 and rotating bcn call 734-279-1679. Rwy 09-27 and

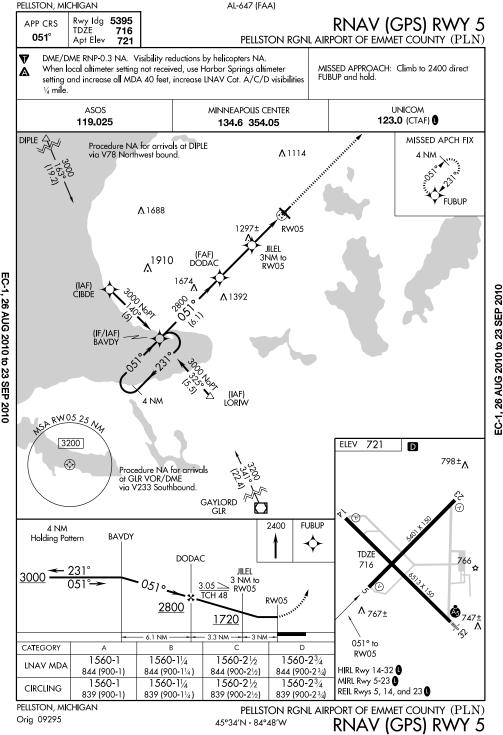
dsplcd thids marked with yellow cones. Rwy 09-27 NSTD LIRL due to lens color and configuration. Rotating bcn OTS indef. **COMMUNICATIONS: CTAF 122.9** 

PETLI N42°58.09′ W83°53.41′

DETROIT COPTER

NOTAM FILE FNT. NDR (LOM) 269 FN 097° 6.5 NM to Bishop Intl. Unmonitored when two clades DETROIT





Apt Elev

WAAS

W23A

EC-1, 26 AUG 2010 to 23 SEP 2010

231°

AL-647 (FAA)

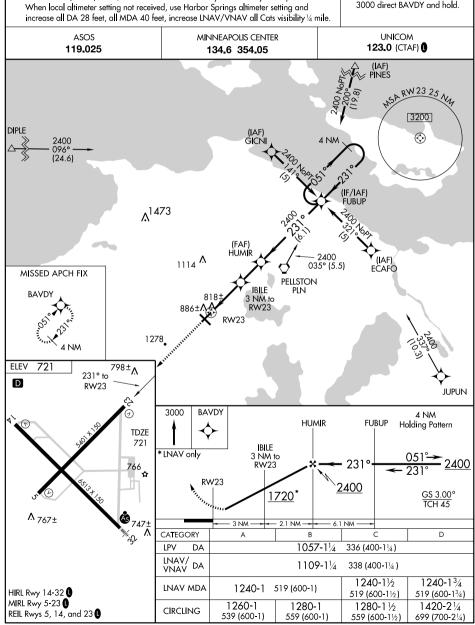
## RNAV (GPS) RWY 23 PELLSTON RGNL AIRPORT OF EMMET COUNTY (PLN)

Baro-VNAV NA when using Harbor Springs altimeter setting.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or A above 47°C (116°F), DME/DME RNP-0.3 NA, Visibility reduction by helicopters NA, When local altimeter setting not received, use Harbor Springs altimeter setting and

MISSED APPROACH: Climb to 3000 direct BAVDY and hold.

EC-1, 26 AUG 2010 to 23 SEP 2010



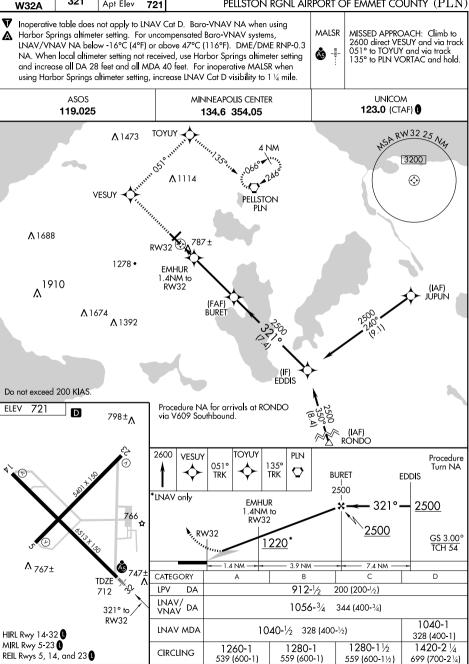
PELLSTON, MICHIGAN Orig 09295

PELLSTON RGNL AIRPORT OF EMMET COUNTY (PLN) RNAV (GPS) RW

# RNAV (GPS) RWY 32

EC-1, 26 AUG 2010 to 23 SEP 2010

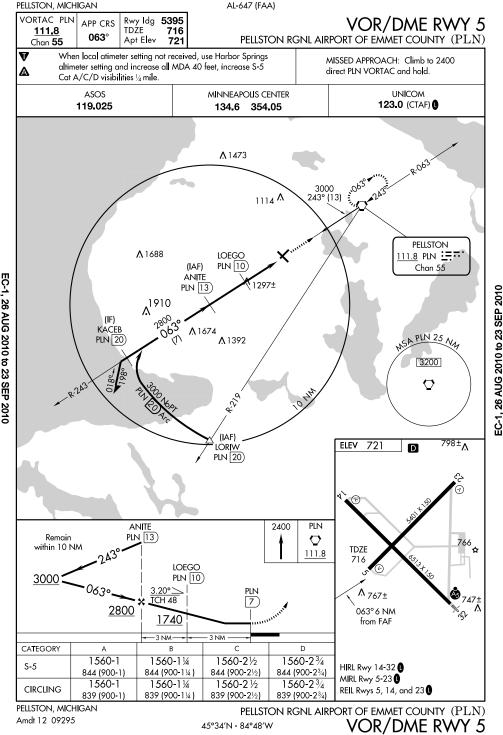
PELLSTON RGNL AIRPORT OF EMMET COUNTY (PLN)



PELLSTON, MICHIGAN Orig 09295

EC-1, 26 AUG 2010 to 23 SEP 2010

PELLSTON RGNL AIRPORT OF EMMET COUNTY (PLN)45°34'N - 84°48'W RNAV (GPS) RW



PELLSTON, MICHIGAN AL-647 (FAA) VORTAC PLN Rwy Idg 5395 VOR RWY 23 APP CRS TDŹE 111.8 721 245° Apt Elev PELLSTON RGNL AIRPORT OF EMMET COUNTY (PLN) 721 Chan **55** When local altimeter setting not received, use Harbor Springs altimeter MISSED APPROACH: Climb to 2000 then climbing setting and increase all MDA 40 feet. Increase all Cat C and S-23 Cat D left turn to 2800 direct PLN VORTAC and hold. visibility ¼ mile. Visibility reduction by helicopters NA. **ASOS** MINNEAPOLIS CENTER UNICOM 123.0 (CTAF) ( 119.025 134.6 354.05 Procedure NA for arrivals at SSM VOR/DME IAF via V45 Northbound SAULT STE MARIE 3000 NoPT 112.2 SSM ::: (39.4 Chan 59 R-065 2700 (IF) FRYII (14.7) 8 INT 1473 NoPT for arrival on PLN VORTAC airway radials 023 CW 170. 1034± SA PLN 25 NA 3200 IAF PELLSTON 111.8 PLN :=... 1278 Chan 55 <sup>1674</sup>∧ ELEV 721 D <sup>798±</sup>∧ **∧**<sub>1392</sub> 245° 6.1 NM from FAF **TDZE** 721 2000 2800 PLN **VORTAC** Remain within 10 NM 766 111.8 ☆ PLN 2700 6.1 2700 Λ<sub>767±</sub> 747± ∠2.99° TCH 45 6.1 NM -HIRL Rwy 14-32 🕕 CATEGORY С D MIRL Rwy 5-23 (L) Α В REIL Rwys 5, 14, and 23 🗓 1300-11/2 1300-13/4 S-23 1300-1 579 (600-1) FAF to MAP 6.1 NM 579 (600-11/2) 579 (600-134)  $1300 - 1\frac{1}{2}$ 1420-21/4 Knots 60 90 120 150 180 CIRCLING 579 (600-1) 1300-1 6:06 3:03 579 (600-11/2) 699 (700-21/4) Min:Sec 4:04 2:26 2:02

PELLSTON, MICHIGAN Amdt 16 09295

EC-1, 26 AUG 2010 to 23 SEP 2010

PELLSTON RGNL AIRPORT OF EMMET COUNTY (PLN)

191 MICHIGAN PHURN N42°50.58′ W82°35.80′. NOTAM FILE PHN. DETROIT NDB (LOM) 332 PH 043° 5.1 NM to St Clair Co Intl. PIKLE N45°43.36′ W87°13.49′ NOTAM FILE ESC. NDB (LOM) 344 ES 087° 5.5 NM to Delta Co. PINCONNING GROSS (52I) 3 W UTC-5(-4DT) N43°50.81′ W84°00.68′ DETROIT NOTAM FILE LAN RWY 09-27: 2565X100 (TURF) LIRL RWY 09: Trees. RWY 27: Thid dspicd 442'. Road. AIRPORT REMARKS: Attended phone req-call 517-879-9915. Fuel avbl emerg only. For snow removal call 989-708-7583. Buildings in primary surface east end, 70' N; 93' S of cenerline; also 4' fence along rwy edge, first 140'. S side: +15'-45' trees 95' S of centerline west end. Rwv 09-27 marked with 3' vellow cones. ACTIVATE LIRL Rwv 09-27-CTAF. COMMUNICATIONS: CTAF 122.9 PLAINWELL MUNI (61D) 2 N UTC-5(-4DT) N42°28.07′ W85°38.88′ CHICAGO 722 S4 FUEL 100LL NOTAM FILE LAN RWY 09-27: H2650X50 (ASPH) LIRL RWY 09: Thid dspicd 191'. Expressway. RWY 27: Thid dspicd 775'. Trees. RWY 01-19: 2550X150 (TURF) RWY 01: Thid dspicd 268'. Tree. RWY 19: Thid dspicd 980'. Trees. AIRPORT REMARKS: Attended irregularly. Rwy 09-27 sfc extensive cracking. For LIRL Rwy 09-27 key 122.8 five times on. Rwy 01-19 and dsplcd thids marked with yellow cones. COMMUNICATIONS: CTAF/UNICOM 122.8 **PLYMOUTH** CANTON-PLYMOUTH-METTETAL (1D2) 2 S UTC-5(-4DT) N42°20.89′ W83°27.38′ DETROIT S4 FUEL 100LL TPA-1696(1000) NOTAM FILE LAN COPTER RWY 18-36: H2303X75 (ASPH-GRVD) S-12.5 MIRL 0.5% up N L-28J. A RWY 18: PAPI(P2L)-GA 4.0° TCH 25', Road. IAP RWY 36: PAPI (P4R)-GA 3.0° TCH 25'. Trees. AIRPORT REMARKS: Attended 1300Z±-dusk, Fuel 24 hour self serve. Noise sensitive areas N and S of arpt. Ctc arpt manager **(3** 734-459-0012 for noise abatement procedures. ACTIVATE MIRL Rwy 18-36, PAPI Rwy 18 and Rwy 36-CTAF. €3 81 COMMUNICATIONS: CTAF/UNICOM 122.7 0 €3 (R) DETROIT APP/DEP CON 118.95 €3 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. ß SALEM (L) VORTAC 114.3 SVM Chan 90 N42°24.53' W83°35.65' 124° 7.1 NM to fld. 950/3W. €3 €3 €3

## (See HIGHLAND)

PONTIAC N42°42.05′ W83°31.97′ NOTAM FILE PTK. Chan 47

PONDEROSA HELIPORT

(L) VORTAC 111.0 PSI

116° 5.4 NM to Oakland Co Intl. 1148/3W.

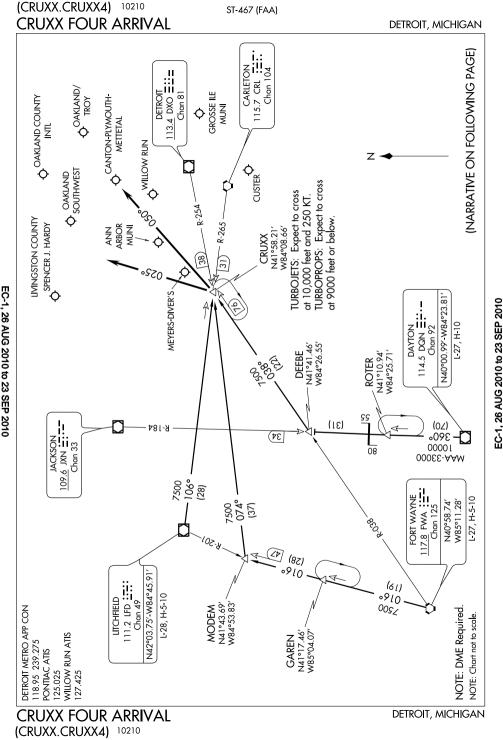
ß €3 000

DETROIT

L-28J, A

VOR unusable 170°-210°.

RCO 122 15R 111 OT (LANSING RADIO)



## ARRIVAL DESCRIPTION

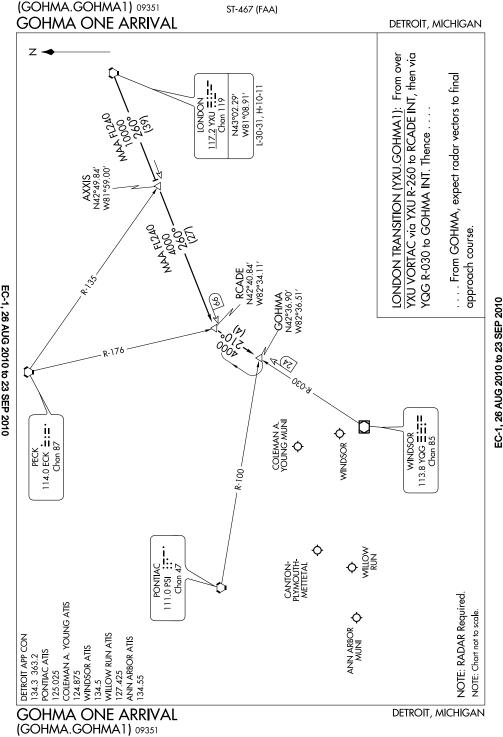
ST-467 (FAA)

DAYTON TRANSITION (DQN.CRUXX4): From over DQN VOR/DME via DQN R-360 and JXN R-184 to DEEBE INT and FWA R-038 to CRUXX INT. Thence . . . . FORT WAYNE TRANSITION (FWA.CRUXX4): From over FWA VORTAC via FWA R-016 to MODEM INT and DXO R-254 to CRUXX INT. Thence . . . . LITCHFIELD TRANSITION (LFD.CRUXX4): From over LFD VORTAC via LFD R-106 to CRUXX INT. Thence . . . .

.... Aircraft landing Y47, PTK, OMI7, ØZW, ONZ, 1D2, TTF, VLL: From over CRUXX INT via 025° heading.

. . . . Aircraft landing YIP or ARB: From over CRUXX INT via 050° heading.

Expect radar vector to final approach course.



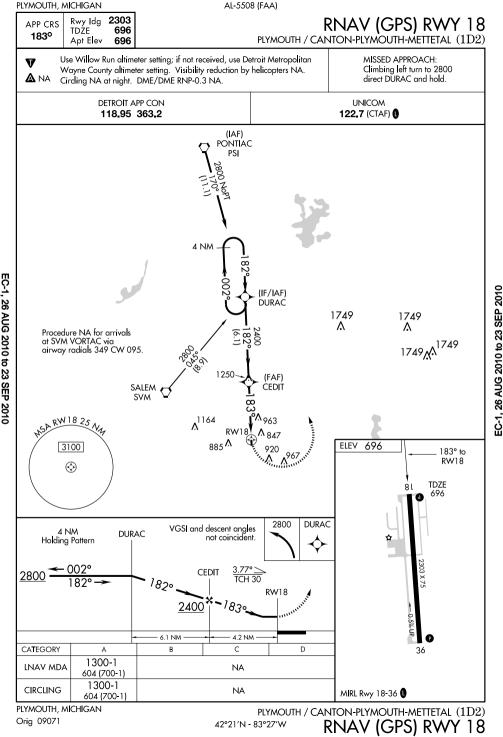
NOTE: Chart not to scale.

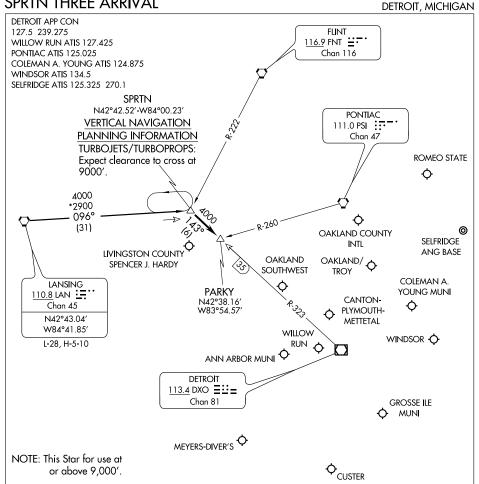
EC-1, 26 AUG 2010 to 23 SEP 2010

#### ARRIVAL DETROIT, MICHIGAN 118.95 363.2 PONTIAC ATIS 125.025 124.875 WINDSOR ATIS 134.5 SELFRIDGE ATIS 125.325 270.1 127.425 ANN ARBOR ATIS 134.55 NOTE: RADAR REQUIRED DETROIT APP CON COLEMAN A. YOUNG ATIS WILLOW RUN ATIS JOHNSTOWN L-29, H-10-12 W78°50.05′ N40°19.00′ Chan 77 115.5 PSB :::::. Chan 102 PHILPSBURG W77°59.56′ N40°54.98′ L-30, H-10-12 MAA FL450 FL180 289 (66) 41°0°, Z 114.4 ACO ===== 112.7 CXR ==== W81°12.09′ W80°24.97′ N41°06.47" N41°11.53' AKRON Chan 91 CHARDON HAGUD L-30, H-10 19 Chan 74 117.1 AIR R-102 Chan 118 BELLAIRE Turboprops: Expect clearance to cross at 8,000'. Furbojets: Expect clearance to cross at 10,000′ 8 EC-1, 26 AUG 2010 to 23 SEP 2010 PLANNING INFORMATION VERTICAL NAVIGATION W81°34.66′ N41°18.34′ N41°50.55′-W82°37.38′ CANCR . . . . Aircraft Landing Coleman A. Young Muni, Oakland County Intl, Windsor, Oakland/Troy, Southwest, Livingston County: From over LLEEO INT via 330° heading. Expect radar vectors to ILEEO AKRON TRANSITION (ACO.LLEEO2): From over ACO VOR/DME via ACO R-309 and DXO JOHNSTOWN TRANSITION (JST. LLEEQ2): From over JST VORTAC via JST R-313 to HAGUD 00 INT, then via DJB R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. DRYER TRANSITION (DJB.LLEEO2): From over DJB VOR/DME via DJB R-330 to LLEEO INT. 27 PHILPSBURG TRANSITION (PSB.LLEEO2): From over PSB VORTAC via PSB R-289 and DJB . . . Aircraft Landing Willow Run, Ann Arbor Muni, Canton-Plymouth-Mettetal, Oakland 9 W82°12.83' N41°38.07′ R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. Thence . . . . Selfridge ANGB: From over LLEEO INT via 360° heading. Expect radar vectors to final PEJAE R-102-10000 ARRIVAL ROUTE DESCRIPTION SELFRIDGE ANGB COLEMAN A. YOUNG MUNI WINDSOR -8-065 113.6 DJB ::: W82°09.72′ L-30, H-10 N41°21.48′ Chan 83 DRYER OAKLAND/ TROY R-130 to LLEEO INT. Thence OAKIAND COUNTY NTL 113.4 DXO =::= CANTON PLYMOUTH **♦** METTETAL WILLOW DETROIT Z N Chan 81 OAKLAND SOUTHWEST 🔷 13.1 vwv :: I final approach course. WATERVILLE ANN ARBOR 🗘 Chan 78 LIMINGSTON Thence. Thence.

ARRIVAL

approach course.





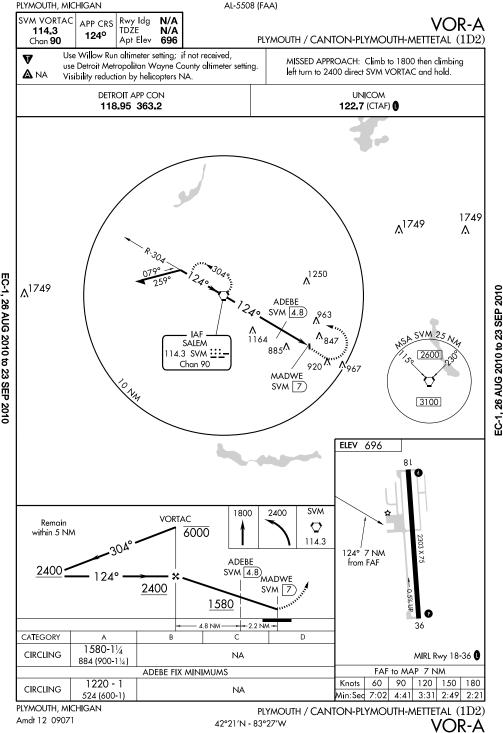
LANSING TRANSITION (LAN.SPRTN3): From over LAN VORTAC via LAN R-096 to SPRTN INT. Thence . . . .

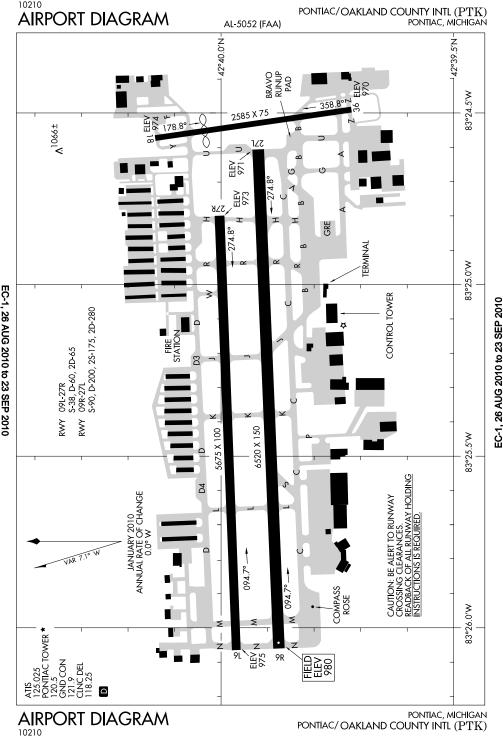
. . . . Aircraft landing: DET, PTK, VLL, D98, MTC, ARB, YIP, ONZ, 1D2, TTF, Y47, 36MI, OZW, 3TE, YQG: From over SPRTN INT via DXO R-323

to PARKY INT. Thence . . . .

. . . . Expect radar vectors to final approach course.

NOTE: Chart not to scale.





192 **MICHIGAN** 

FUEL 100LL JET A OX 1 LRA

#### **PONTIAC**

#### OAKLAND CO INTL

RWY 09R-27L: H6520X150 (ASPH-PFC) S-90, D-200, 2S-175, 2D-280 HIRL RWY 09R: MALSR, PAPI (P4R)-GA 3.0° TCH 45'.

(PTK) 5 W UTC-5(-4DT) N42°39.94′ W83°25.23′

Class IV. ARFF Index A NOTAM FILE PTK

DETROIT

COPTER

RWY 27L: REIL, VASI(V4L)—GA 3.0° TCH 45', Trees.

RWY 09L-27R: H5675X100 (ASPH-PFC) S-38, D-60, 2D-65

MIRI

RWY 09L: REIL. PAPI(P4L).

980 B S4

RWY 27R: REIL. PAPI(P4L)-GA 3.0° TCH 51'.

RWY 18-36: H2585X75 (ASPH)

RWY 18: PAPI(P2L)—GA 3.0°. Thid dspicd 650'.

RWY 36: PAPI(P21)-GA 3 0°

RUNWAY DECLARED DISTANCE INFORMATION

RWY 09L: TORA-5675 TODA-5675 ASDA-5675 LDA-5675

RWY 09R: TORA-6520 TODA-6520 ASDA-6520 LDA-6520 RWY 27L: TORA-6520 TODA-6520 ASDA-6520 LDA-6520 RWY 27R: TORA-5675 TODA-5675 ASDA-5675 LDA-5675

AIRPORT REMARKS: Attended continuously. Air carrier ops with more than 30 passenger seats reg PPR call arpt manager

248-666-3900. Seaplane Idgs and tkfs on Lake Angelus 4.5 miles ENE is prohibited by local ordinances. Birds and deer on

and invof arpt. Control twr unable to see more than 200' S of Rwy 35 thld and Twy G between Twy A and Twy B. Twy H and Twy U

ACTIVATE PAPI Rwv 09L, REIL Rwv 27R, PAPI Rwv 27R, and VASI Rwv 27L ctc twr, Ldg fee for acft over 12500 lbs. US Customs user fee arpt. Contact U.S. Customs 1200-0100Z‡ Mon-Fri on 248-666-7717; other times

minimum 3 hrs advance notification on 734-942-9000. WEATHER DATA SOURCES: ASOS (248) 666-1818.

COMMUNICATIONS: CTAF 120.5 ATIS 125.025

UNICOM 122.95

PONTIAC RCO 122.15R 111.0T (LANSING RADIO)

R DETROIT APP/DEP CON 127.5

PONTIAC TOWER 120.5 123.7 (1100-0500Z±) GND CON 121.9 121.65 AIRSPACE: CLASS D svc 1100-0500Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE PTK.

PONTIAC (L) VORTAC 111.0 PSI Chan 47 N42°42.05′ W83°31.97′ 116° 5.4 NM to fld. 1148/3W.

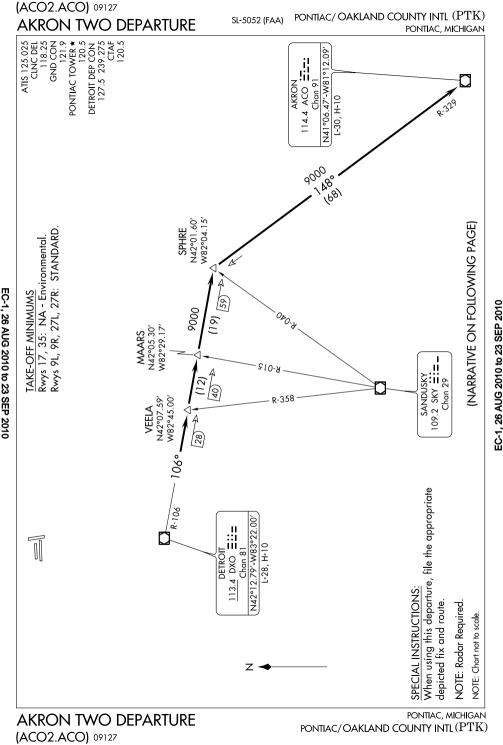
unlighted north of Rwy 09R-27L. Rwy 18 PAPI OTS indef. ACTIVATE MALSR Rwy 09R. PAPI Rwy 09R—CTAF.

IIS 111 1 I-PTK Rwv 09R. Class IE. Unmonitored when twr clsd. LOC BC unusable byd 14 NM blo 3300'.

H-10G I-28I A IAP. AD æ Williams Lake - 1 Hinth 5675 X 100 @

Rwy 18-36: 2585 X 75

**CLNC DEL** 118.25



AKRON TWO DEPARTURE

EC-1, 26 AUG 2010 to 23 SEP 2010

### DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 9L/R and 27L/R: Climb via assigned heading for radar vectors, thence. . . .

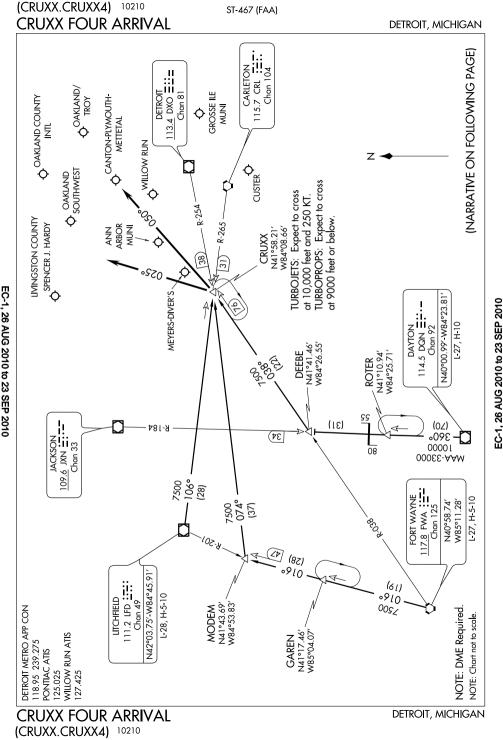
. . . .to intercept DXO VOR/DME R-106 to SPHRE INT, then via ACO R-329 to ACO VOR/DME. Maintain 3000 feet, expect clearance to filed altitude/flight level ten (10) minutes after departure.

#### TAKE-OFF OBSTACLES

Rwy 9R: Multiple Trees beginning 1382' from DER, 647' left of centerline, up to 41' AGL/1011' MSL. Ant on Hangar 870' from DER, 732' right of centerline, 36' AGL/1006' MSL.

Rwy 27L: Multiple Trees beginning 1075' from DER, 630' left of centerline, up to 78' AGL/1048' MSL. Tree 1702' from DER, 945' right of centerline, 71' AGL/1041' MSL.

Rwy 27R: Tree 2057' from DER, 395' right of centerline, 71' AGL/1041 MSL'.



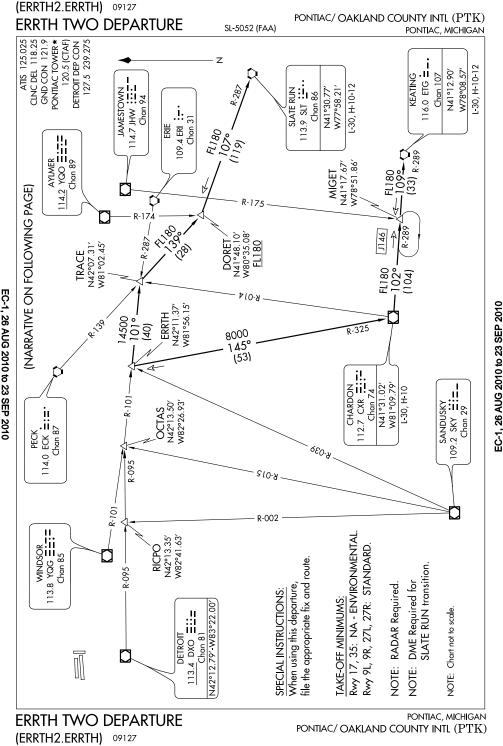
#### ARRIVAL DESCRIPTION

DAYTON TRANSITION (DQN.CRUXX4): From over DQN VOR/DME via DQN R-360 and JXN R-184 to DEEBE INT and FWA R-038 to CRUXX INT. Thence . . . . FORT WAYNE TRANSITION (FWA.CRUXX4): From over FWA VORTAC via FWA R-016 to MODEM INT and DXO R-254 to CRUXX INT. Thence . . . . LITCHFIELD TRANSITION (LFD.CRUXX4): From over LFD VORTAC via LFD R-106 to CRUXX INT. Thence . . . .

.... Aircraft landing Y47, PTK, OMI7, ØZW, ONZ, 1D2, TTF, VLL: From over CRUXX INT via 025° heading.

. . . . Aircraft landing YIP or ARB: From over CRUXX INT via 050° heading.

Expect radar vector to final approach course.



### DEPARTURE ROUTE DESCRIPTION

SL-5052 (FAA)

TAKE-OFF RUNWAYS 9L/R and 27L/R: Climb via assigned heading for radar vectors to join the assigned SID. Maintain 3000 feet, expect clearance to filed altitude / flight level ten (10) minutes after departure.

CHARDON TRANSITION (ERRTH2.CXR): From over ERRTH INT via CXR R-325 to CXR VOR/DME.

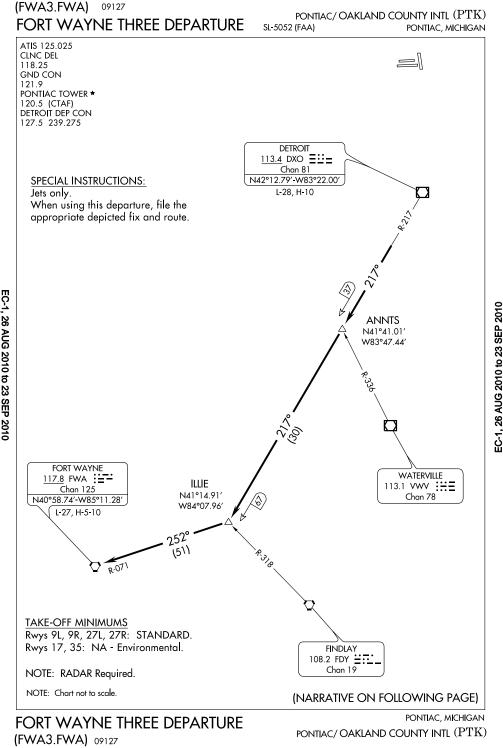
KEATING TRANSITION (ERRTH2.ETG): From over ERRTH INT via CXR R-325 to CXR VOR/DME, then via CXR R-102 and ETG R-289 to MIGET INT, then via ETG R-289 to ETG VORTAC.

SLATE RUN TRANSITION (ERRTH2.SLT): (DME Required) From over ERRTH INT via YQG R-101 to TRACE INT, then via ECK R-139 to DORET INT, then via SLT R-287 to SLT VORTAC.

### TAKE-OFF OBSTACLES:

Rwy 9R: Multiple trees beginning 1382' from DER, 647' left of centerline, up to 41' AGL/1011' MSL. Ant on hangar 870' from DER, 732' right of centerline, 36' AGL/1006' MSL.

Rwy 27L: Multiple trees beginning 1075' from DER, 630' left of centerline, up to 78' AGL/1048' MSL. Tree 1702' from DER, 945' right of centerline, 71' AGL/1041' MSL. Rwy 27R: Tree 2057' from DER, 395' right of centerline, 71' AGL/1041' MSL.



# DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 9L/R AND 27L/R: Climb via assigned heading for radar vectors, thence. . . .

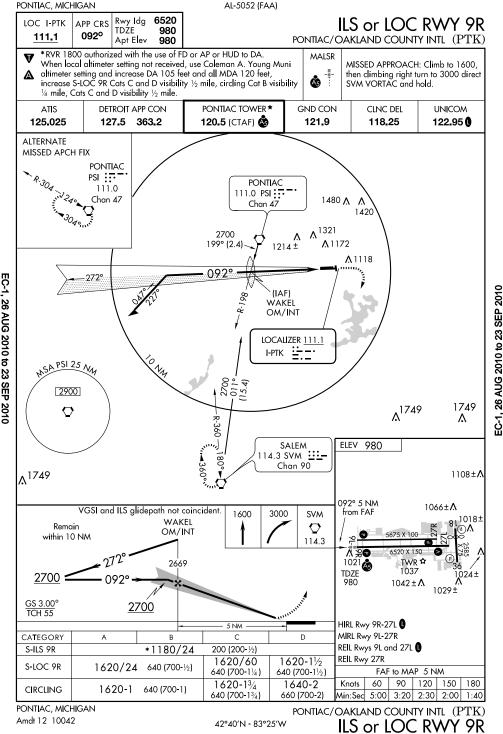
. . . .to intercept DXO VOR/DME R-217 to ILLIE INT, then via FWA R-071 to FWA VORTAC. Maintain 3000, expect clearance to filed flight level ten (10) minutes after departure.

# TAKE-OFF OBSTACLES:

Multiple trees beginning 1382' from DER, 647' left of centerline, Rwy 9R: up to 41' AGL/1011' MSL. Ant on hangar 870' from DER, 732' right of centerline, 36' AGL/1006' MSL. Multiple trees beginning 1075' from DER, 630' left of centerline, Rwy 27L: up to 78' AGL/1048' MSL.

Tree 1702' from DER, 945' right of centerline, 71' AGL/1041' MSL. Rwy 27R: Tree 2057' from DER, 395' right of centerline, 71' AGL/1041' MSL.

EC-1, 26 AUG 2010 to 23 SEP 2010



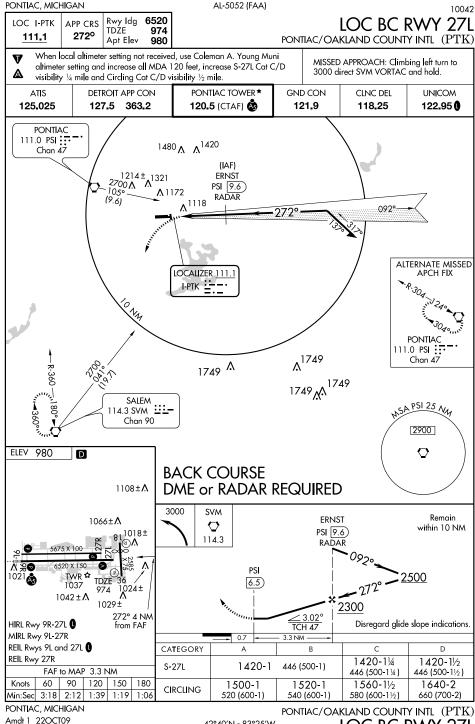
NOTE: Chart not to scale.

EC-1, 26 AUG 2010 to 23 SEP 2010

#### ARRIVAL DETROIT, MICHIGAN 118.95 363.2 PONTIAC ATIS 125.025 124.875 WINDSOR ATIS 134.5 SELFRIDGE ATIS 125.325 270.1 127.425 ANN ARBOR ATIS 134.55 NOTE: RADAR REQUIRED DETROIT APP CON COLEMAN A. YOUNG ATIS WILLOW RUN ATIS JOHNSTOWN L-29, H-10-12 W78°50.05′ N40°19.00′ Chan 77 115.5 PSB :::::. Chan 102 PHILPSBURG W77°59.56′ N40°54.98′ L-30, H-10-12 MAA FL450 FL180 289 (66) 41°0°, Z 114.4 ACO ===== 112.7 CXR ==== W81°12.09′ W80°24.97′ N41°06.47" N41°11.53' AKRON Chan 91 CHARDON HAGUD L-30, H-10 19 Chan 74 117.1 AIR R-102 Chan 118 BELLAIRE Turboprops: Expect clearance to cross at 8,000'. Furbojets: Expect clearance to cross at 10,000′ 8 EC-1, 26 AUG 2010 to 23 SEP 2010 PLANNING INFORMATION VERTICAL NAVIGATION W81°34.66′ N41°18.34′ N41°50.55′-W82°37.38′ CANCR . . . . Aircraft Landing Coleman A. Young Muni, Oakland County Intl, Windsor, Oakland/Troy, Southwest, Livingston County: From over LLEEO INT via 330° heading. Expect radar vectors to ILEEO AKRON TRANSITION (ACO.LLEEO2): From over ACO VOR/DME via ACO R-309 and DXO JOHNSTOWN TRANSITION (JST. LLEEQ2): From over JST VORTAC via JST R-313 to HAGUD 00 INT, then via DJB R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. DRYER TRANSITION (DJB.LLEEO2): From over DJB VOR/DME via DJB R-330 to LLEEO INT. 27 PHILPSBURG TRANSITION (PSB.LLEEO2): From over PSB VORTAC via PSB R-289 and DJB . . . Aircraft Landing Willow Run, Ann Arbor Muni, Canton-Plymouth-Mettetal, Oakland 9 W82°12.83' N41°38.07′ R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. Thence . . . . Selfridge ANGB: From over LLEEO INT via 360° heading. Expect radar vectors to final PEJAE R-102-10000 ARRIVAL ROUTE DESCRIPTION SELFRIDGE ANGB COLEMAN A. YOUNG MUNI WINDSOR -8-065 113.6 DJB ::: W82°09.72′ L-30, H-10 N41°21.48′ Chan 83 DRYER OAKLAND/ TROY R-130 to LLEEO INT. Thence OAKIAND COUNTY NTL 113.4 DXO =::= CANTON PLYMOUTH **♦** METTETAL WILLOW DETROIT Z N Chan 81 OAKLAND SOUTHWEST 🔷 13.1 vwv :: I final approach course. WATERVILLE ANN ARBOR 🗘 Chan 78 LIMINGSTON Thence. Thence.

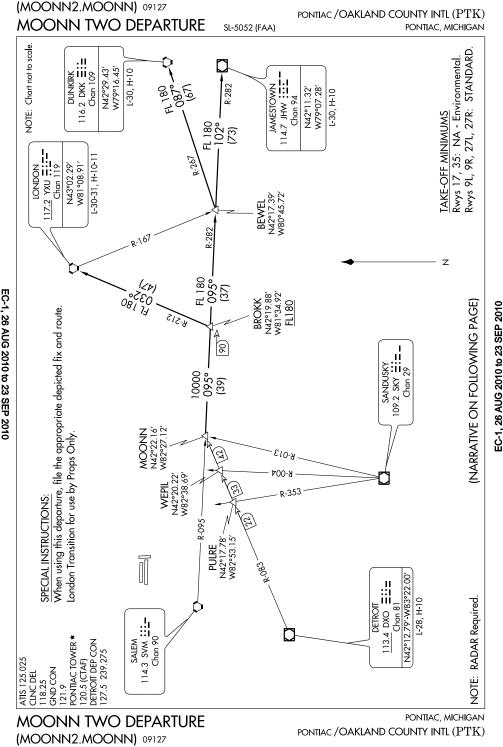
ARRIVAL

approach course.



EC-1, 26 AUG 2010 to 23 SEP 2010

42°40'N - 83°25'W BC RW





# DEPARTURE ROUTE DESCRIPTION

#### TAKE-OFF RUNWAYS 9L/R AND 27L/R:

Climb via assigned heading for radar vectors to join the assigned SID.

Maintain 3000 feet, expect clearance to filed altitude/ flight level

ten (10) minutes after departure.

DUNKIRK TRANSITION (MOONN2.DKK): From over MOONN INT via SVM R-095 to BROKK INT, then via SVM R-095 and JHW R-282 to BEWEL INT, then via DKK R-267 to DKK VORTAC.

JAMESTOWN TRANSITION (MOONN2.JHW): From over MOONN INT via SVM R-095 to BROKK INT, then via SVM R-095 and JHW R-282 to BEWEL INT, then via JHW R-282 to JHW VOR/DME.

LONDON TRANSITION (MOONN2.YXU): From over MOONN INT via SVM R-095 to BROKK INT, then via YXU R-212 to YXU VORTAC.

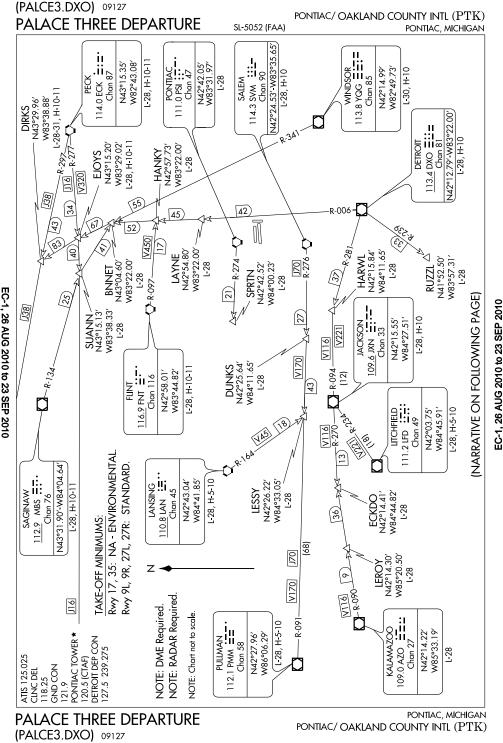
### TAKE-OFF OBSTACLES

Rwy 9R: Multiple trees beginning 1382' from DER, 647' left of centerline, up to 41' AGL/1011' MSL. Ant on hangar 870' from DER, 732' right of centerline, 36' AGL/1006' MSL.

Rwy 27L: Multiple trees beginning 1075' from DER, 630' left of centerline, up to 78' AGL/1048' MSL. Tree 1702' from DER, 945' right of centerline, 71' AGL/1041' MSL.

Rwy 27R: Tree 2057' from DER, 395' right of centerline, 71' AGL/1041' MSL.

, , ,



EC-1, 26 AUG 2010 to 23 SEP 2010

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 9L/R AND 27L/R: Climb via assigned heading for radar vectors to join the assigned SID. Maintain 3000 feet, expect clearance to filed altitude / flight level ten (10) minutes after departure.

### SPECIAL INSTRUCTIONS:

When using this departure, file the appropriate depicted departure fix and route. Aircraft landing/overflying Lansing (LAN) at 10,000 feet or below, file via SPRTN. Aircraft landing/overflying Flint (FNT) at 10,000 feet or below, file via LAYNE. Aircraft landing/overflying Toledo (TOL) at 10,000 feet or below, file via RUZZL. Aircraft over HARWL must file FL220 and below.

#### TAKE-OFF OBSTACLES:

Rwy 9R: Multiple trees beginning 1382' from DER, 647' left of centerline, up to 41'

AGL/1011' MSL. Ant on hangar 870' from DER, 732' right of centerline, 36' AGL/1006' MSL.

Rwy 27L: Multiple trees beginning 1075' from DER, 630' left of centerline, up to 78' AGL/1048' MSL. Tree 1702' from DER, 945' right of centerline, 71' AGL/1041' MSL.

Rwy 27R: Tree 2057' from DER, 395' right of centerline, 71' AGL/1041' MSL.

(RID4.RID) 09127 PONTIAC/ OAKLAND COUNTY INTL (PTK) RICHMOND FOUR DEPARTURE SL-5052 (FAA) PONTIAC, MICHIGAN ATIS 125.025 CLNC DEL 118.25 **GND CON** 121.9 PONTIAC TOWER ★ 120.5 (CTAF) DETROIT DEP CON DETROIT 127.5 239.275 113.4 DXO **Ξ**∷= Chan 81 N42°12.79′-W83°22.00′ L-28, H-10 **CAVVS** N41°41.04′ SANDUSKY W83°34.14′ L-28 109.2 SKY **∷**= Chan 29 EC-1, 26 AUG 2010 to 23 SEP 2010 WATERVILLE 113.1 VWV **:**∺**Ξ** Chan 78 N41°27.09′ W83°38.32' L-28, H-10 SPECIAL INSTRUCTIONS: Jets only. When using this departure, file the appropriate depicted fix and route. TAKE-OFF MINIMUMS: Rwy 17, 35: NA - Environmental. Rwy 9L, 9R, 27L, 27R: STANDARD. **RICHMOND** NOTE: RADAR Required. 110.6 RID ::.. NOTE: Chart not to scale. Chan 43 N39°45.30′ - W84°50.33′ L-27, H-10 (NARRATIVE ON FOLLOWING PAGE)

# RICHMOND FOUR DEPARTURE

EC-1, 26 AUG 2010 to 23 SEP 2010

### DEPARTURE ROUTE DESCRIPTION

# TAKE-OFF RUNWAYS 9L/R AND 27L/R:

Climb via assigned heading for radar vectors, thence. . . .

. . . . To intercept DXO VOR/DME R-202 to CAVVS INT/DXO 33 DME, then via VWV R-015 to VWV VOR/DME. Then right turn via VWV R-211 and RID R-031 to RID VORTAC. Maintain 3,000 feet, expect clearance to filed altitude/flight level ten (10) minutes after

departure.

## TAKE OFF OBSTACLES:

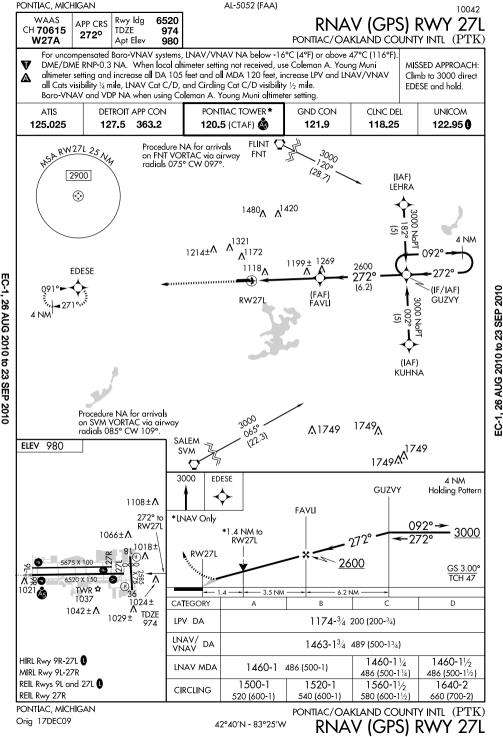
Rwy 9R: Multiple trees beginning 1382' from DER, 647' left of centerline, up to 41' AGL/1011' MSL. Ant on hangar 870' from DER, 732' right of centerline, 36' AGL/1006' MSL. Multiple trees beginning 1075' from DER, 630' left of centerline, up to 78' AGL/1048' MSL.

Rwy 27L:

Rwy27R:

Tree 1702' from DER, 945' right of centerline, 71' AGL/1041'MSL. Tree 2057' from DER, 395' right of centerline, 71' AGL/1041' MSL.

EC-1, 26 AUG 2010 to 23 SEP 2010



# ROSEWOOD TWO DEPARTURE (ROD2.ROD) 09127

NOTE: Chart not to scale.

EC-1, 26 AUG 2010 to 23 SEP 2010

PONTIAC, MICHIGAN PONTIAC/OAKLAND COUNTY INTL (PTK)

L-27, H-10

NOTE: RADAR Required.

#### DEPARTURE ROUTE DESCRIPTION

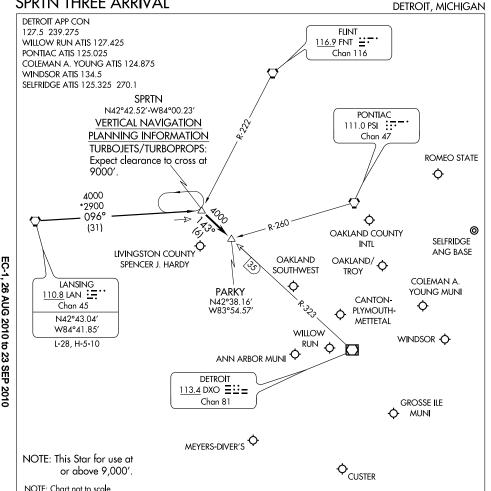
TAKE-OFF RUNWAYS 9L/R AND 27L/R: Climb via assigned heading for radar vectors to join the assigned SID. Maintain 3000 feet, expect clearance to filed altitude / flight level ten (10) minutes after departure.

TAKE-OFF OBSTACLES:

Rwy 9R: Multiple trees beginning 1382' from DER, 647' left of centerline, up to 41'
AGL/1011' MSL. Ant on hangar 870' from DER, 732' right of centerline,
36' AGL/1006' MSL.

Rwy 27L: Multiple trees beginning 1075' from DER, 630' left of centerline, up to 78' AGL/1048' MSL. Tree 1702' from DER, 945' right of centerline, 71' AGL/1041' MSL.

Rwy 27R: Tree 2057' from DER, 395' right of centerline, 71' AGL/1041' MSL.

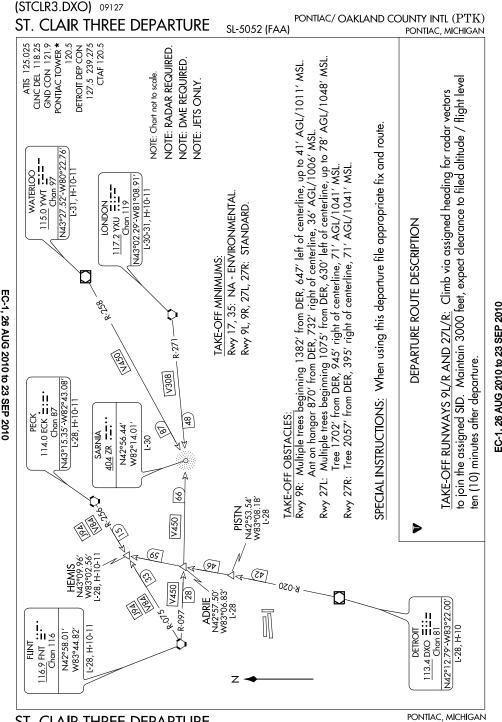


LANSING TRANSITION (LAN.SPRTN3): From over LAN VORTAC via LAN R-096 to SPRTN INT. Thence . . . .

. . . . Aircraft landing: DET, PTK, VLL, D98, MTC, ARB, YIP, ONZ, 1D2, TTF, Y47, 36MI, OZW, 3TE, YQG: From over SPRTN INT via DXO R-323

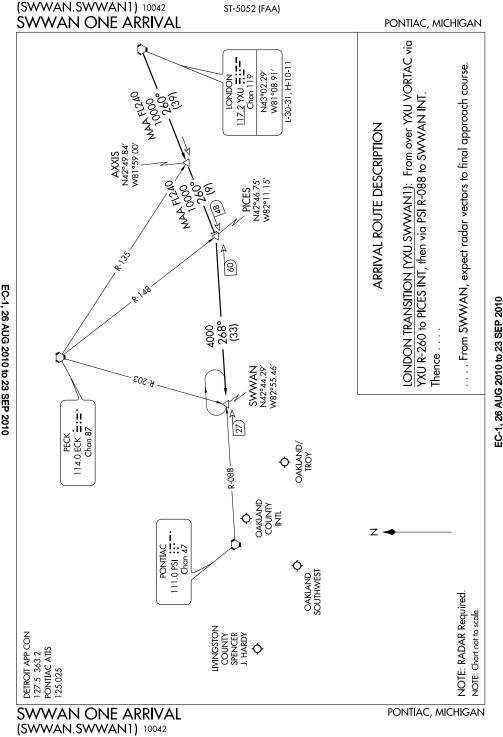
to PARKY INT. Thence . . . .

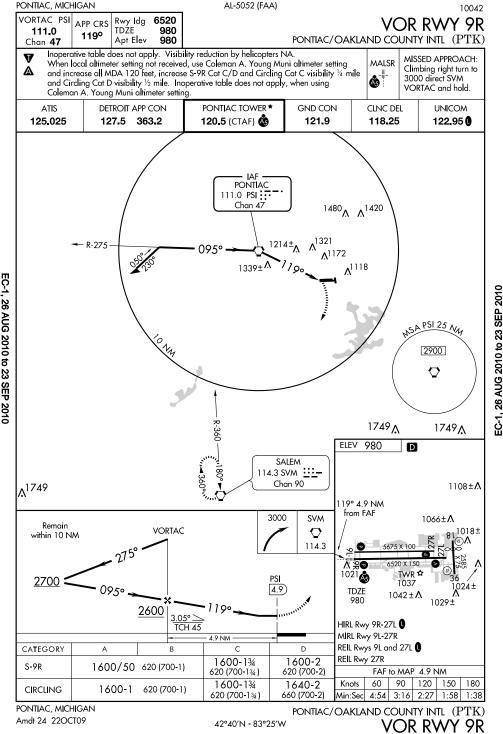
. . . . Expect radar vectors to final approach course.

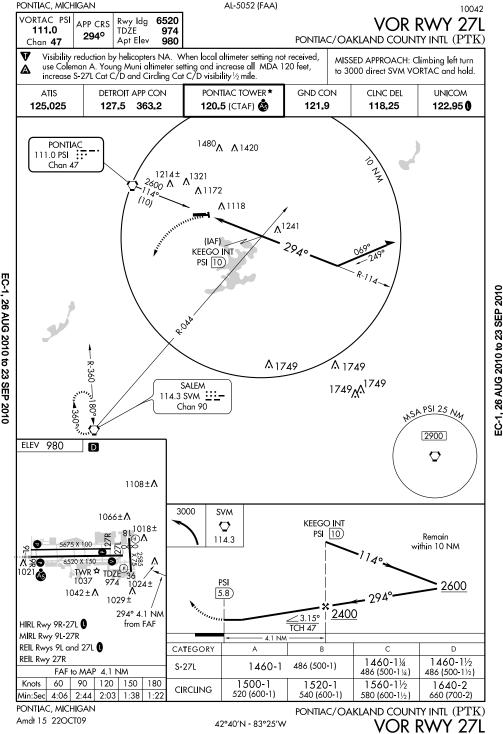


# ST. CLAIR THREE DEPARTURE (STCLR3.DXO) 09127

PONTIAC, MICHIGAN PONTIAC, MICHIGAN PONTIAC/ OAKLAND COUNTY INTL  $(\operatorname{PTK})$ 







5 SW UTC-5(-4DT) N42°54.66′ W82°31.73′

S-40, D-55, 2D-90

193

RWY 04-22: H5104X100 (ASPH-GRVD)

PORT HURON ST CLAIR CO INTL

RWY 04: MALSR. PAPI(P4L)-GA 3.0° TCH 31'. Tree.

S4

RWY 22: REIL. PAPI(P4L)-GA 3.0° TCH 30'. Trees.

RWY 10-28: H4000X75 (ASPH)

RWY 10: REIL, PAPI (P4L), GA 3.0° TCH 25', Trees.

RWY 28: REIL. PAPI (P4L). GA 3.5° TCH 31'. Trees. AIRPORT REMARKS: Attended 1300Z‡-dusk. Arpt unattended Easter; Thanksgiving and Christmas. Deer and gulls on and invof arpt. Rwy 10 REIL OTS indef. Rwy 28 REIL OTS indef. HIRL Rwy 04-22

(PHN)

and MIRL Rwy 10-28 preset on low ints; to increase ints and

ACTIVATE REIL Rwvs 22: 10 and 28 and MALSR Rwv 04-CTAF.

COMMUNICATIONS: CTAF/UNICOM 123.05

I-PHN

(See LINDEN) PRICKETT-GROOMS FLD

PULLMAN N42°27 96' W86°06 29'

VOR/DME unusable 080°-068° DME unusable byd 30 NM blo 3000'. RCO 122.1R 112.1T (LANSING RADIO)

(See HOWELL)

(57D)

RWY 09: REIL. PAPI(P2L)-GA 3.0° TCH 40'. Trees. RWY 27: PAPI(P2L). Thid dsplcd 210'. Trees. RWY 18-36: 2187X123 (ASPH-TURF) RWY 18: Thid dspicd 140'. Trees.

S4 FUEL 100LL

RANDOLPH'S LANDING AREA

and Rwy 27-CTAF. COMMUNICATIONS: CTAF/UNICOM 122 7

RWY 09-27: H2494X60 (ASPH)

Service (ADCUS) avbl.

ILS 110.9

PRESQUE ISLE CO

**PRICES** 

RAETHER

RAY COMMUNITY

В

810-985-6126 and arpt manager at 810-364-6890 24 hrs in advance for disposal of acft international trash. Flight Notification

R SELFRIDGE APP/DEP CON 119.6 (1230-0400Z‡) clsd hol, other times uncontrolled for DHS, ARNG, USCG or emergency ops. (R) CLEVELAND CENTER APP/DEP CON 127.7 (0400-1230Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

PECK (H) VORTAC 114.0 ECK Chan 87 N43°15.35′ W82°43.08′

WEATHER DATA SOURCES: AWOS-3 118.375 (810) 364-7787.

PHURN NDB (LOM) 332 PH N42°50.57′ W82°35.80′

Rwy 04.

(See ROGERS CITY)

(See SIDNAW)

FUEL 100LL, JET A TPA-1650 (1000)

S-16

entry into the U.S. Notify U.S. Dept of Agriculture at

MIRI

LOM PHURN NDB.

NOTAM FILE LAN

2 SE UTC-5(-4DT) N42°44.21′ W82°53.33′

RWY 36: Trees.

(H) VOR/DME 112.1 PMM Chan 58 072° 13.0 NM to Padgham Fld. 640/00E.

(See ST JOHNS)

NOTAM FILE LAN

Ldg fee for commercial and corporate acft. Trans Atlantic flights will have to notify U.S. Customs at 810-985-9541 one hr prior to

LRA

HIRL

043° 5.1 NM to fld.

NOTAM FILE PHN

G<sup>G</sup>

Œ C3<sub>C3</sub>

C

165° 22.3 NM to fld. 810/7W. HIWAS.

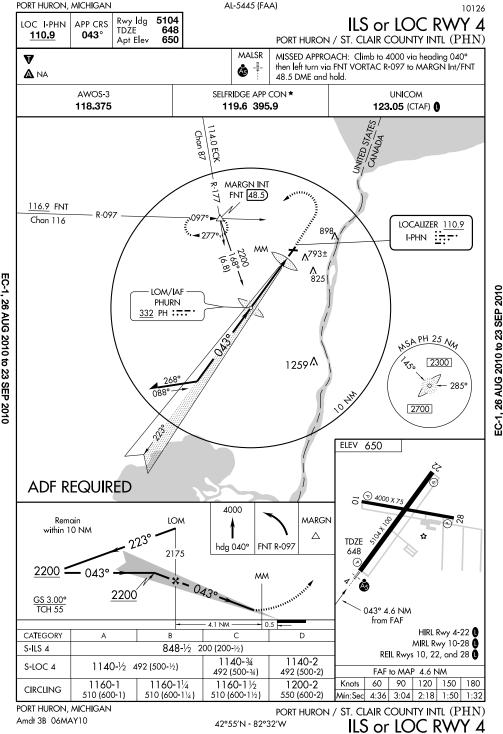
CHICAGO

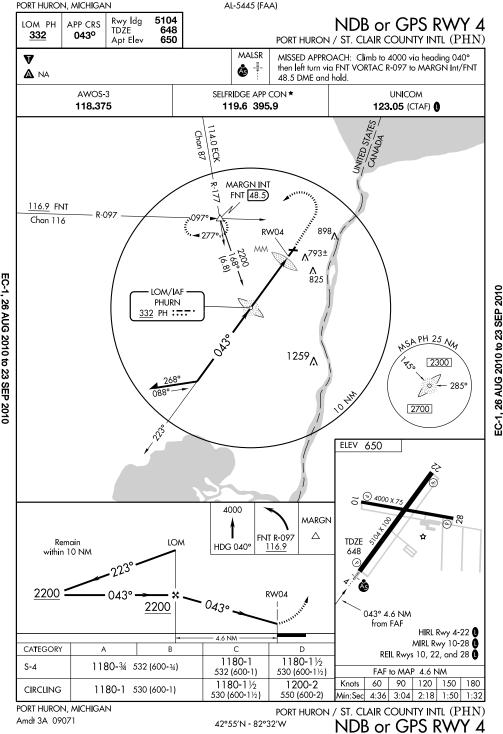
H-5E, 10F, L-28I

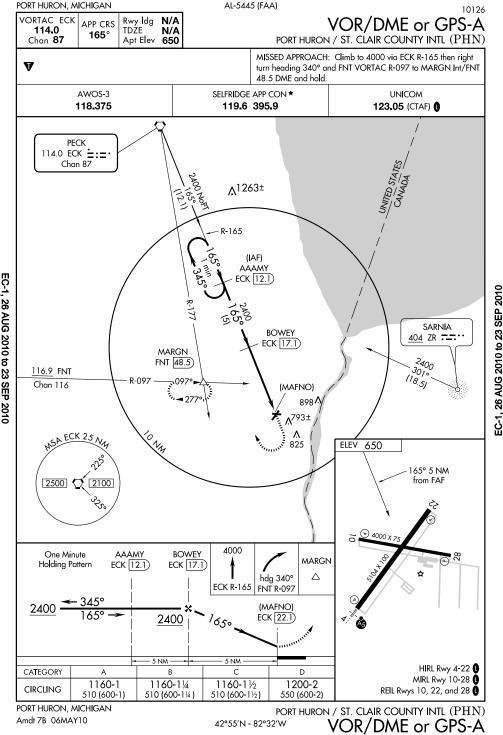
AIRPORT REMARKS: Attended irregularly. Ultralight ops. Rwy 18-36 asph peeling and cracking. Rwy 18-36 north 900'

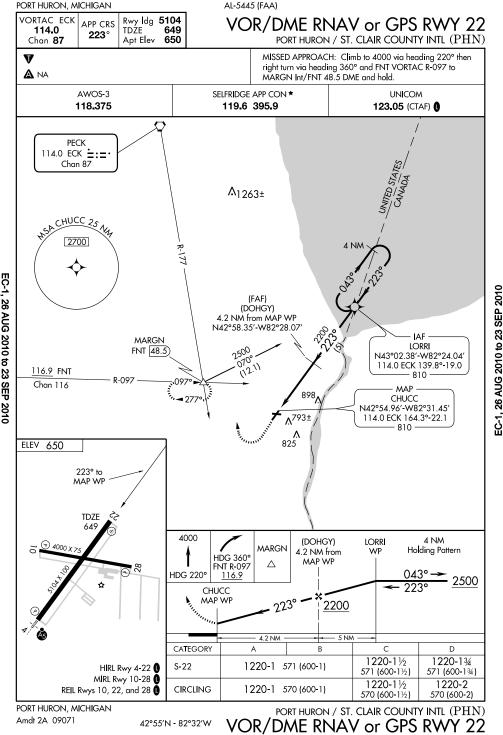
asph, asph 28' wide. Rwy 18-36 marked with cones. ACTIVATE rotating bcn, MIRL Rwy 09-27 and PAPI Rwy 09

DETROIT COPTER









### **ROGERS CITY**

PRESQUE ISLE CO (PZQ) 1 S UTC-5(-4DT) N45°24.43′ W83°48.77′ NOTAM FILE LAN

RWY 09-27: H4105X75 (ASPH) S-22

NOTAM FILE LAN

RWY 09: REIL, PAPI(P4L)—GA 3.0° TCH 35', Thid dspicd 220',

Trees

MIRL

RWY 27: REIL. PAPI(P4L)—GA 3.0° TCH 34'. Thid dspicd 380'. P-line

AIRPORT REMARKS: Unattended, Deer and birds on and invof arpt. Confirm snow removal and winter conditions: phone

989-734-2216 or arpt manager 989-734-4309, ACTIVATE MIRL

Rwy 09-27, PAPI Rwy 09 and Rwy 27, REIL Rwy 09 and Rwy 27-CTAF.

WEATHER DATA SOURCES: AWOS-3 118.125 (989) 734-7419. COMMUNICATIONS: CTAF 122.9

ALPENA RCO 122.1R 108.8T (LANSING RADIO)

R ALPENA APP/DEP CON 128.425 (Weekdays 1300-2100Z‡) (R) MINNEAPOLIS CENTER APP/DEP CON 128.425 (2100-1300Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE APN.

ALPENA (L) VORTAC 108.8 APN Chan 25 N45°04.97' W83°33.42' 338° 22.3 NM to fld. 677/7W. HIWAS. ROGERS CITY NDB (MHW) 215 PZO N45°24,28' W83°49,22' at fld.

ROMEO STATE (D98) 2 E UTC-5(-4DT) N42°47.78′ W82°58.46′

FUEL 100LL JET A NOTAM FILE LAN

RWY 18-36: H4000X75 (ASPH) MIRL

RWY 18: REIL, PAPI(P4L)—GA 3.0° TCH 20', Thid dspicd 470', Trees. RWY 36: REIL. PAPI(P4L)-GA 3.0° TCH 22'. Road.

AIRPORT REMARKS: Attended Jun-Sep 1400Z‡-dusk, Oct-May

1400-2300Z±. Deer on and invof rwv. ACTIVATE MIRL Rwv 18-36. PAPI Rwy 18 and Rwy 36 and REIL Rwy 18 and Rwy 36-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8

PONTIAC RCO 122.15R 111.0T (LANSING RADIO)

R SELFRIDGE APP/DEP CON 119.6 (1230-0400Z‡) clsd hol, other times

uncontrolled for DHS, ARNG, USCG or emergency ops.

R CLEVELAND CENTER APP/DEP CON 127.7 (0400-1230Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE PTK.

PONTIAC (L) VORTAC 111.0 PSI Chan 47 N42°42.05'

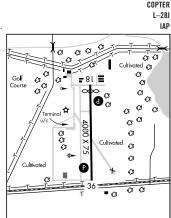
W83°31.97' 080° 25.3 NM to fld. 1148/3W.

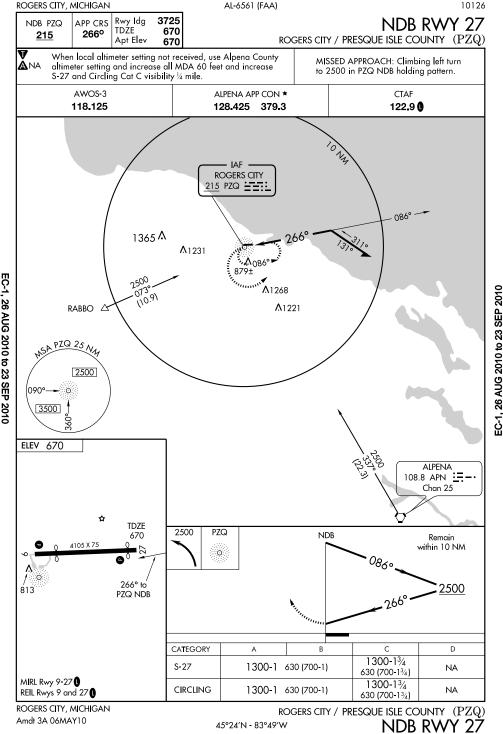
IAP €3 €3 €3 a 4105 X 75 C3 C3 Ø €3 €3 C3 ଫ ଫ ଫ Quarry €3 €3 Œ

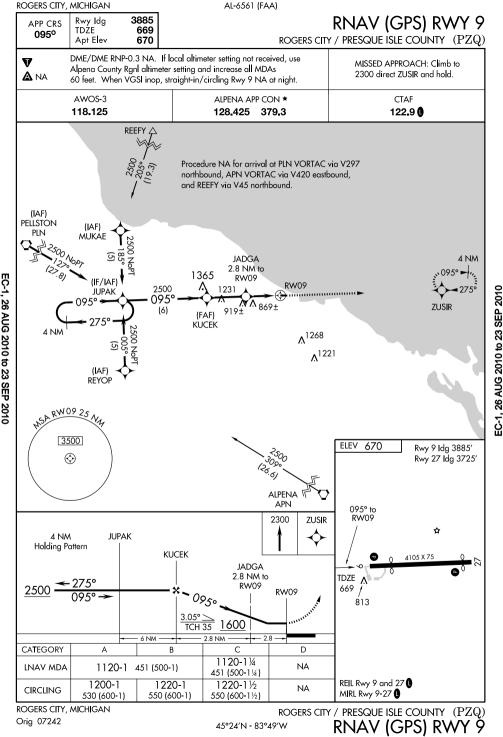
LAKE HIIRON

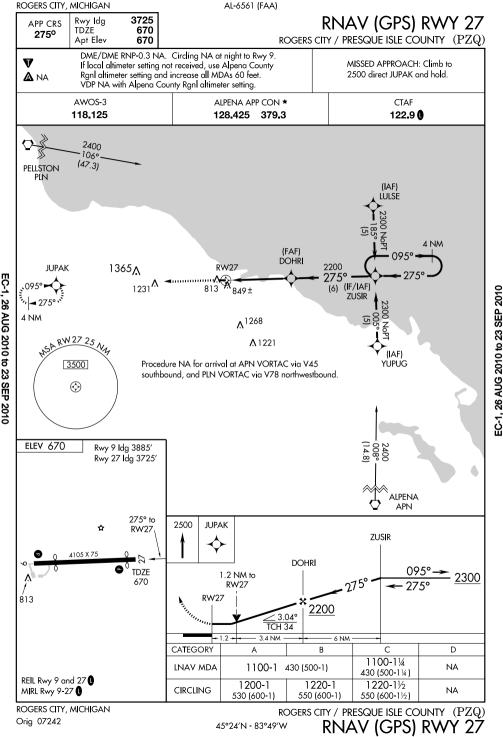
I-31C

DETROIT









### **ROGERS CITY**

PRESQUE ISLE CO (PZQ) 1 S UTC-5(-4DT) N45°24.43′ W83°48.77′ NOTAM FILE LAN

RWY 09-27: H4105X75 (ASPH) S-22

NOTAM FILE LAN

RWY 09: REIL, PAPI(P4L)—GA 3.0° TCH 35', Thid dspicd 220',

Trees

MIRL

RWY 27: REIL. PAPI(P4L)—GA 3.0° TCH 34'. Thid dspicd 380'. P-line

AIRPORT REMARKS: Unattended, Deer and birds on and invof arpt. Confirm snow removal and winter conditions: phone

989-734-2216 or arpt manager 989-734-4309, ACTIVATE MIRL

Rwy 09-27, PAPI Rwy 09 and Rwy 27, REIL Rwy 09 and Rwy 27-CTAF.

WEATHER DATA SOURCES: AWOS-3 118.125 (989) 734-7419. COMMUNICATIONS: CTAF 122.9

ALPENA RCO 122.1R 108.8T (LANSING RADIO)

R ALPENA APP/DEP CON 128.425 (Weekdays 1300-2100Z‡) (R) MINNEAPOLIS CENTER APP/DEP CON 128.425 (2100-1300Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE APN.

ALPENA (L) VORTAC 108.8 APN Chan 25 N45°04.97' W83°33.42' 338° 22.3 NM to fld. 677/7W. HIWAS. ROGERS CITY NDB (MHW) 215 PZO N45°24,28' W83°49,22' at fld.

ROMEO STATE (D98) 2 E UTC-5(-4DT) N42°47.78′ W82°58.46′

FUEL 100LL JET A NOTAM FILE LAN

RWY 18-36: H4000X75 (ASPH) MIRL

RWY 18: REIL, PAPI(P4L)—GA 3.0° TCH 20', Thid dspicd 470', Trees. RWY 36: REIL. PAPI(P4L)-GA 3.0° TCH 22'. Road.

AIRPORT REMARKS: Attended Jun-Sep 1400Z‡-dusk, Oct-May

1400-2300Z±. Deer on and invof rwv. ACTIVATE MIRL Rwv 18-36. PAPI Rwy 18 and Rwy 36 and REIL Rwy 18 and Rwy 36-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8

PONTIAC RCO 122.15R 111.0T (LANSING RADIO)

R SELFRIDGE APP/DEP CON 119.6 (1230-0400Z‡) clsd hol, other times

uncontrolled for DHS, ARNG, USCG or emergency ops.

R CLEVELAND CENTER APP/DEP CON 127.7 (0400-1230Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE PTK.

PONTIAC (L) VORTAC 111.0 PSI Chan 47 N42°42.05'

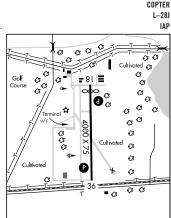
W83°31.97' 080° 25.3 NM to fld. 1148/3W.

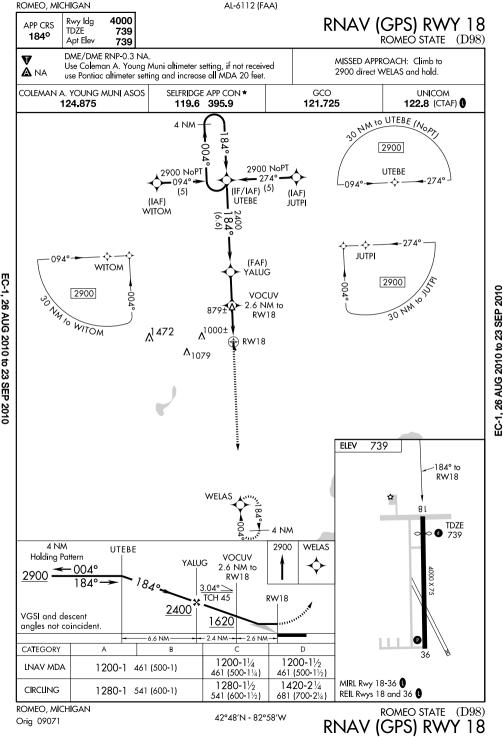
IAP €3 €3 €3 a 4105 X 75 C3 C3 Ø €3 €3 C3 ଫ ଫ ଫ Quarry €3 €3 Œ

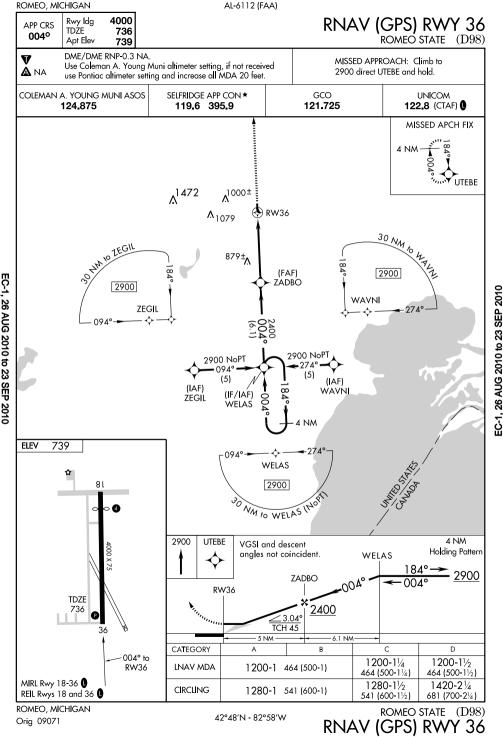
LAKE HIIRON

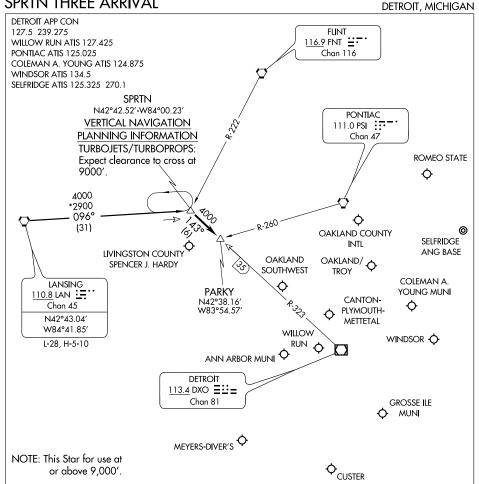
I-31C

DETROIT









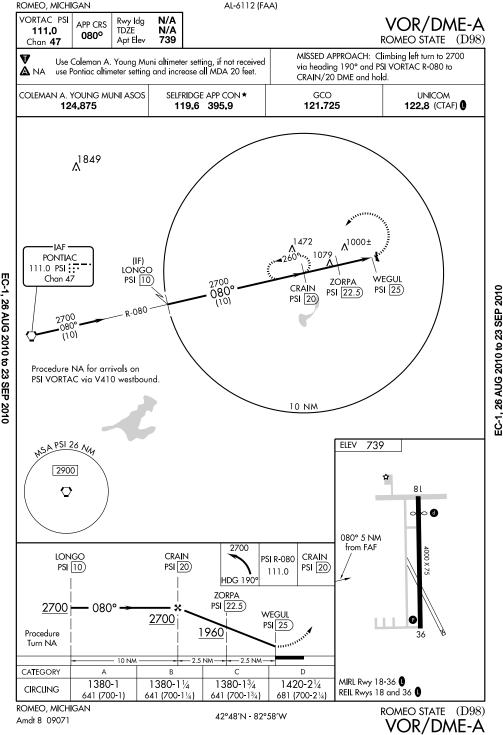
LANSING TRANSITION (LAN.SPRTN3): From over LAN VORTAC via LAN R-096 to SPRTN INT. Thence . . . .

. . . . Aircraft landing: DET, PTK, VLL, D98, MTC, ARB, YIP, ONZ, 1D2, TTF, Y47, 36MI, OZW, 3TE, YQG: From over SPRTN INT via DXO R-323

to PARKY INT. Thence . . . .

. . . . Expect radar vectors to final approach course.

NOTE: Chart not to scale.



# SAGINAW CO H.W. BROWNE (HYX) 4 E UTC-5(-4DT) N43°26.01' W83°51.74'

RWY 05: PAPI(P2L)-GA 3.0° TCH 25'. Thid dsplcd 120'. Fence. RWY 23: PAPI(P2R)-GA 3.0° TCH 25'. Thid dsplcd 130'. Road. AIRPORT REMARKS: Attended Mon-Fri 1230-2300Z±, Sat-Sun

Rwy 09 and PAPI Rwy 05, Rwy 23, Rwy 09 and Rwy 27-CTAF. WEATHER DATA SOURCES: AWOS-3 118.325 (989) 752-3408. HIWAS

FUEL 100LL, JET A NOTAM FILE HYX S4 RWY 09-27: H5000X100 (ASPH) S-60, D-72, 2D-101 RWY 09: REIL. PAPI(P2L)-GA 3.0° TCH 30'. P-line.

RWY 27: MALSR. PAPI(P2L)-GA 3.0° TCH 30'. RWY 05-23: H2951X60 (ASPH) S-12.5

1300-2030Z‡. Arpt unattended holidays. 24 hr self serve fuel. Parachute Jumping, Birds on and invof arpt, Rwy 23 has 2' high concrete culvert, 120' left, 20' from rwy end and ditch 15' deep across the apch end, 120' left to 21' right, 20' to 197' from rwy

Rwy 5-23: 2951 X 60

5000 X 100

DETROIT

IAP

H-10G, 11A, L-28J

end. Rwv 05-23 sfc numerous transverse and longitudinal cracks. ACTIVATE MALSR Rwv 27, MIRL Rwv 05-23 and Rwv 09-27, REIL Chan 76 N43°31.90′ W84°04.64′ 125° 11.1 NM to fld. 663/3W.

HIWAS. ILS/DME 111.35 I–HOW Chan 50(Y) Rwv 27.

SAGINAW RCO 122.4 122.2 (LANSING RADIO) R SAGINAW APP/DEP CON 120.95 (1100-0400Z‡) CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE MBS. SAGINAW (L) VORW/DME 112.9 MBS

ST CLAIR DAVID'S LANDING (5Y5) 3 SW UTC-5(-4DT) N42°47.87′ W82°32.19′

ST HELEN

1198

615 NOTAM FILE LAN RWY 18-36: 2500X100 (TURF)

RWY 18: Thid dsplcd 1100', P-line. RWY 36: Trees. AIRPORT REMARKS: Attended irregularly, Arpt CLOSED Dec-Mar and when snow covered, 100' p-line 5/8 mile S of Rwy

1SE

NOTAM FILE LAN

vellow cones. COMMUNICATIONS: CTAF 122.9

112.9 MBS.

COMMUNICATIONS: CTAF/UNICOM 122.8

ST CLAIR CO INTL (See PORT HURON) (6Y6)

RWY 18-36: 2600X110 (TURF)

COMMUNICATIONS: CTAF 122 9

N44°22.00′ W84°24.00′

UTC-5(-4DT)

RWY 12-30: 2600X120 (TURF)

RWY 30: Thid dspicd 800'. Trees.

RWY 36: Thid dspicd 620'. Road.

RWY 12: Thid dsplcd 830'. Trees.

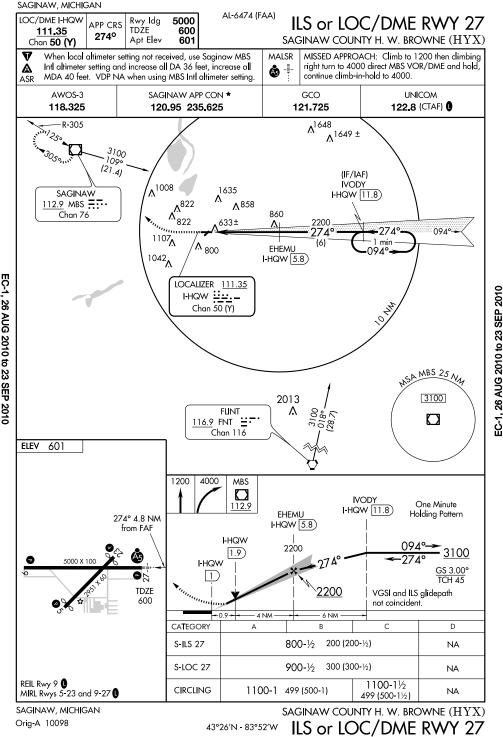
RWY 18: Thid dspicd 825'. Trees.

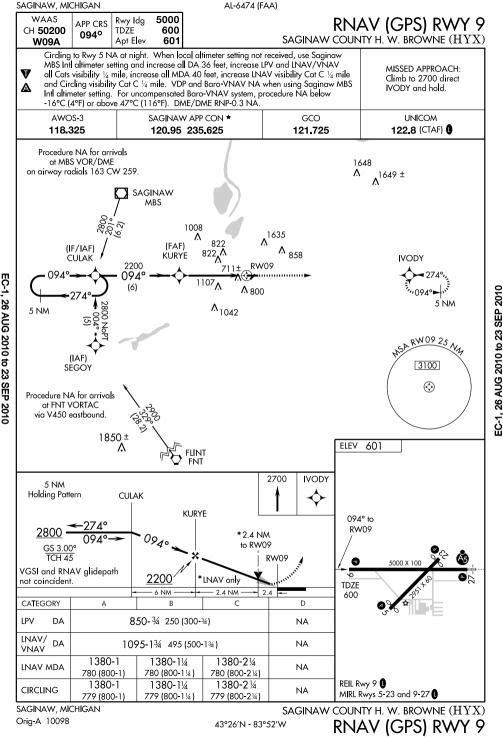
AIRPORT REMARKS: Unattended, CLOSED Dec thru Mar and when snow covered, Hangars located 135' west of centerline Rwy 18-36. Rwy 12-30 and Rwy 18-36 dsplcd thlds marked with cones.

36. Rwy 18-36 soft in spring. Rwy 18-36 -4' ditch 10' W of Rwy. Rwy 18-36 and dsplcd thld marked with 3'

LAKE HIIRON

DETROIT

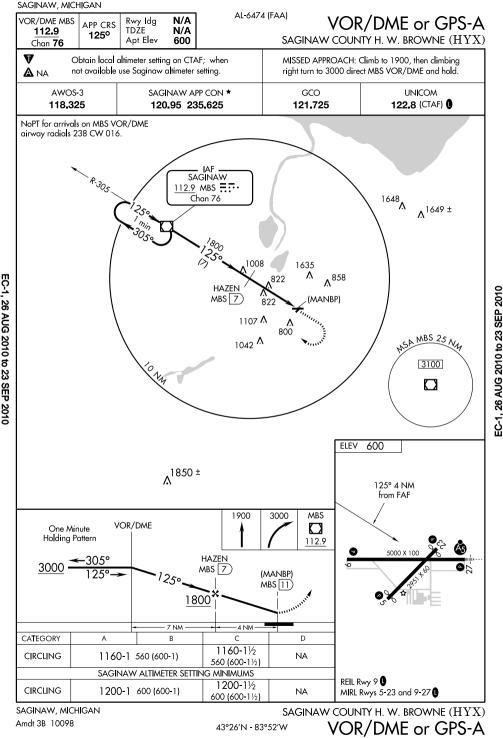


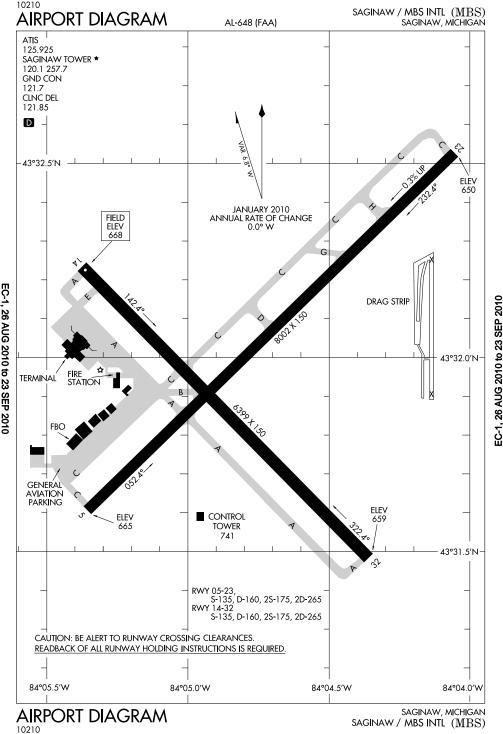


Amdt 1A 10098

EC-1, 26 AUG 2010 to 23 SEP 2010

43°26'N - 83°52'W





€3

#### **SAGINAW**

### MBS INTL

(MBS) 9 NW UTC-5(-4DT) N43°31.98′ W84°04.78′ B S2 FUEL 100LL, JET A OX 1. 3 LRA ARFF Index—See Remarks

H-10G, 11A, L-28J

DETROIT

NOTAM FILE MBS

RWY 05: MALSR

RWY 14-32: H6399X150 (ASPH-GRVD) S-135, D-160, 2S-175.

2D-265 HIRI

RWY 14: REIL. VASI(V4L)-GA 3.0° TCH 42'. Trees. RWY 32: REIL, PAPI(P4L)—GA 3.0° TCH 50', Trees.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 05: TORA-8002 TODA-8002 ASDA-8002 LDA-8002 RWY 14: TORA-6399 TODA-6399 ASDA-6399 LDA-6399

RWY 23: TORA-8002 TODA-8002 ASDA-8002 LDA-8002

RWY 32: TORA-6399 TODA-6399 ASDA-6399 LDA-6399

AIRPORT REMARKS: Attended continuously. For syc after hrs call 989-695-2554. Birds on and invof arpt. When twr clsd HIRL Rwys

05-23 and 14-32 are preset med ints. Twy B is a one way only twy from the rwys to the ramp, ACTIVATE MALSR Rwys 05 and

23-CTAF. Class I, ARFF Index B. Index C ARFF svc available upon

reg. Ldg fee. Ldg fee waived in lieu of fuel purchase. WEATHER DATA SOURCES: ASOS (989) 695-2488, HIWAS 112.9 MBS.

LAWRS (1100-0400Z‡) COMMUNICATIONS: CTAF 120 1 ATIS 125 925

SAGINAW RCO 122.4 122.2 (LANSING RADIO) (R) SAGINAW APP/DEP CON 126.45 (230°-049°), 120.95 (050°-229°)(1100-0400Z‡).

ILS 108.7 I-TOR

between 150°-180°

Rwv 23. Class ID. ILS unmonitored when twr clsd. ASR (1600-0900Z±)

RWY 05-23: H8002X150 (ASPH-GRVD) S-135, D-160, 2S-175, 2D-265 HIRL RWY 23: MALSR, PAPI(P4L)—GA 3.0° TCH 54'. 0.3% up.

CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z±). SAGINAW TOWER 120.1 (1100-0400Z±) GND CON 121.7

**CLNC DEL** 121.85

AIRSPACE: CLASS D svc 1100-0400Z± other times CLASS E.

TRSA svc ctc APP CON within 20 NM.

RADIO AIDS TO NAVIGATION: NOTAM FILE MBS.

**SAGINAW (L) VORW/DME** 112.9 MBS Chan 76 N43°31.90′ W84°04.64′ at fld. 663/3W. OLSTE NDB (LOM) 257 MB N43°27.69′ W84°10.79′ 050° 6.1 NM to fld. Unmonitored.

ILS 108.7 I-MBS Rwy 05. Class IE. LOM OLSTE NDB. ILS unmonitored when twr clsd.

COMM/NAV/WEATHER REMARKS: Emerg frequency, 121.5 not available at twr. OLSTE NDB unusable byd 10 NM and

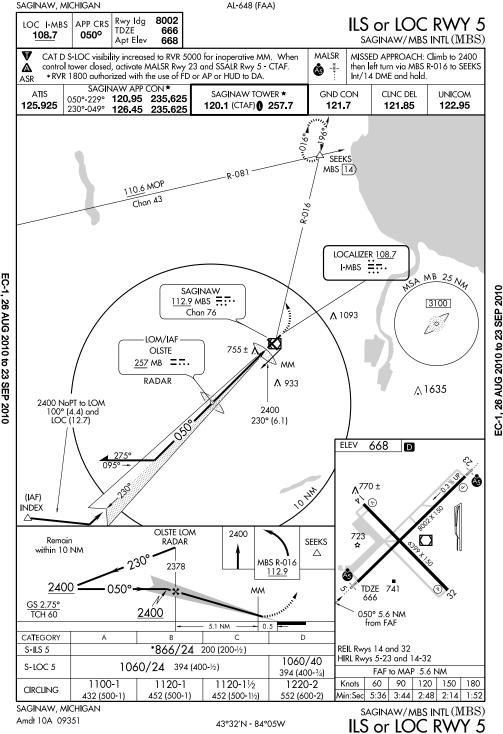
**IINICOM** 122 95

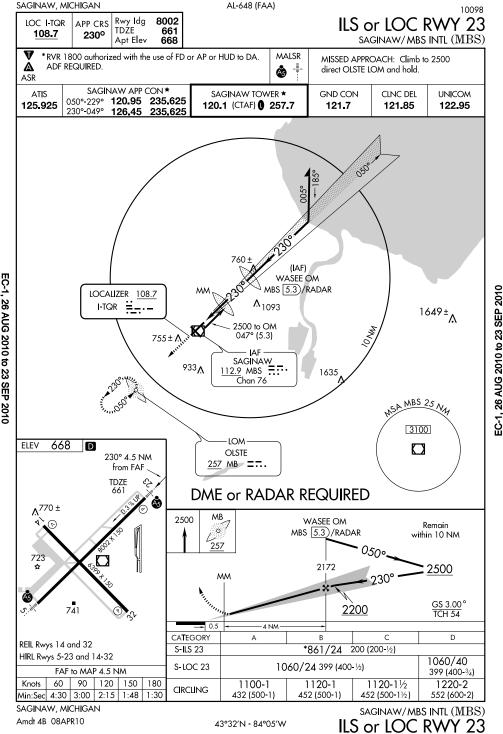
IAP. AD

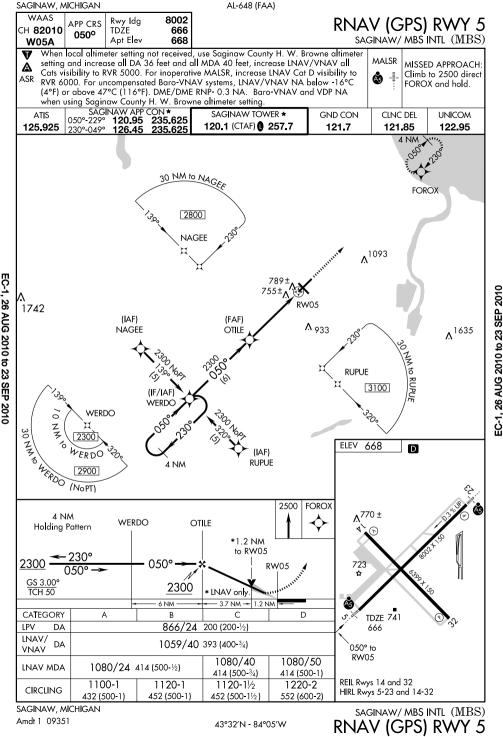
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RAWIH

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RNAV (GPS) RWY 14

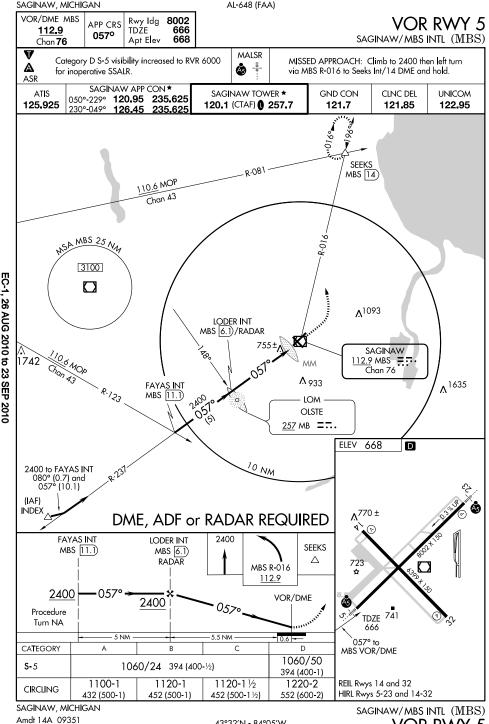
43°32′N - 84°05′W

43°32′N - 84°05′W

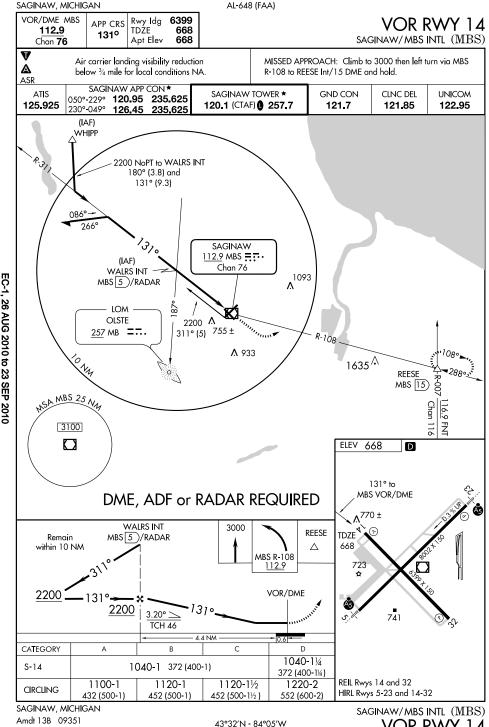
EC-1, 26 AUG 2010 to 23 SEP 2010

SAGINAW, MICHIGAN Amdt 1 09351

SAGINAW/ MBS INTL  $\left( \mathrm{MBS} 
ight)$ 43°32′N-84°05′W RNAV (GPS) RW



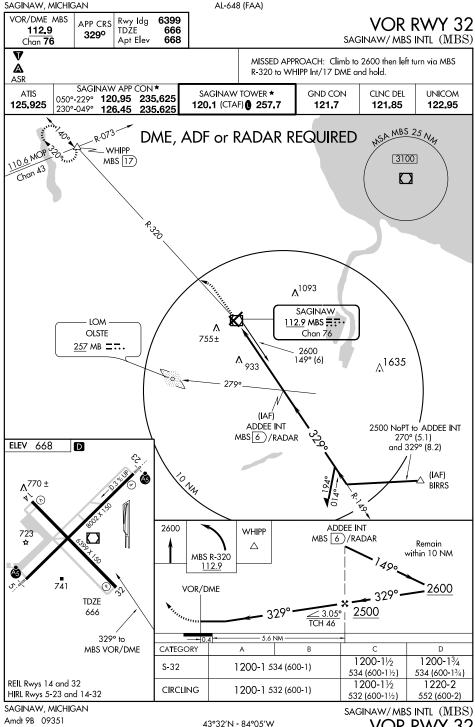
VOR RWY 5



VOR RWY 14

Amdt 14A 09351

EC-1, 26 AUG 2010 to 23 SEP 2010



VOR RWY 32

RWY 16: MALSR. PAPI(P4L)-GA 3.0° TCH 58'. Rgt tfc. RWY 34: REIL. PAPI(P4L)-GA 3.0° TCH 40'. RWY 09-27: H4999X75 (ASPH-GRVD) S-30, D-30

SAULT STE MARIE CHIPPEWA CO INTL (CIU) 15 S UTC-5(-4DT) N46°15.05′ W84°28.34′ FUEL 100LL. JET A

RWY 16-34: H7200X200 (CONC-GRVD)

RWY 09: REIL. PAPI(P4L)—GA 3.0° TCH 40'. Trees.

RWY 27: REIL. PAPI(P4L)-GA 3.0° TCH 40'. Trees. AIRPORT REMARKS: Attended 1100-2300Z‡. After hrs call

906-495-5532. Birds on and invof arpt. 24 hours PPR for call arpt manager on 906-495-5631. Airfield sfc condition

unscheduled air carrier ops with more than 9 passenger seats; unmonitored 2100-1300Z‡. Expect snow removal activity daily Dec-Mar. All twys closed except A, C and D from Dec to Apr. Check NOTAMs for specific schedule or ctc arpt manager 906-495-5631. Vehicle testing in progress during winter months on sections of closed/abandoned parallel twy, SE of apch end Rwy 34. Area may be plowed to bare surface but is not avbl for acft arrivals or departures. ACTIVATE HIRL Rwy 16-34, MIRL Rwy 09-27, PAPI Rwy 16, Rwy 09 and Rwy 27, REIL Rwy 09, Rwy 27 and MALSR Rwy 16 and PAPI and REIL Rwy 34 Apr-Nov-CTAF.

TPA-1600(800)

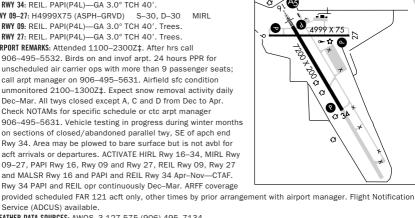
AOE

S-155, D-330, 2S-175, 2D-600

MIRI

Class I. ARFF Index A

HIRL



CHIPPEWA RCO 123.65 (GREEN BAY RADIO) SAULT STE MARIE RCO 122.1R 112.2T (GREEN BAY RADIO) TORONTO CENTER APP/DEP CON 132.65 (SAULT ENROUTE)

WEATHER DATA SOURCES: AWOS-3 127.575 (906) 495-7134.

Service (ADCUS) available.

COMMUNICATIONS: CTAF/UNICOM 123.0

RADIO AIDS TO NAVIGATION: NOTAM FILE CIU. SAULT STE MARIE (H) VOR/DME 112.2 SSM

KOLOE NDB (MH/LOM) 400 CI N46°19.93′ W84°32.53′ NDB unmonitored. ILS 110.3 I-CIU Class IA. Rwy 16.

0430-1000Z<sup>±</sup> Mon-Fri, 0430Z<sup>±</sup> Fri-1145Z<sup>±</sup> Sat and 1715Z<sup>±</sup> Sat-1600Z<sup>±</sup> Sun, ILS unusable MM inbound. Glide slope unusable blo 1012'.

716 FUEL 100LL, JET A NOTAM FILE ANJ

**RWY 14–32**: H5234X100 (ASPH) MIRL (NSTD) RWY 14: REIL. PAPI (P2L)-GA 3.0° TCH 40'. Thid dspicd 180'. RWY 32: REIL. PAPI (P2L)—GA 3.0° TCH 29'. Thid dsplcd 178'. Road. Rgt tfc.

COMMUNICATIONS: CTAF/UNICOM 122.7 TORONTO CENTER APP/DEP CON 132.65 GCO 135.075 (GREEN BAY FSS) RADIO AIDS TO NAVIGATION: NOTAM FILE CIU. SAULT STE MARIE (H) VOR/DME 112.2

SAWYER INTL

SCHIFFER ACRES

SCHOOLCRAFT CO

0.4% up SE

H-2K, 11A, L-31B

Chan 59 N46°24.73′ W84°18.89′ 218° 11.7 NM to fld. 687/4W. 155° 5.7 NM to fld. LOM KOLOE NDB. ILS unmonitored 0430Z‡ Sun-1000Z‡ Mon,

and Rwy 32-CTAF-122.7. US customs on reg call 906-632-2631. WEATHER DATA SOURCES: ASOS 118.375 (906) 632-8501.

COMM/NAV/WEATHER REMARKS: Acft operating within Sault Ste Marie. Ontario Arpt traffic area maintain communications with Sault Ste Marie Ontario twr on frequency 118.8. Pilots operating in Canadian/US Class D Airspace are

SSM

SAULT STE MARIE MUNI/SANDERSON FLD (ANJ) 1SW UTC-5(-4DT) N46°28.75′ W84°22.10′ AIRPORT REMARKS: Attended 1400-2200Z‡. Fuel after hrs self svc with credit card. Deer and birds on and invof arpt. 50' drop off, north end, 200' from rwy end. ACTIVATE MIRL Rwy 14-32, PAPI Rwys 14, Rwy 32 and REIL Rwys 14

Class E Surface Extension 1200-0100Z‡. (See MARQUETTE)

(See ST JOHNS)

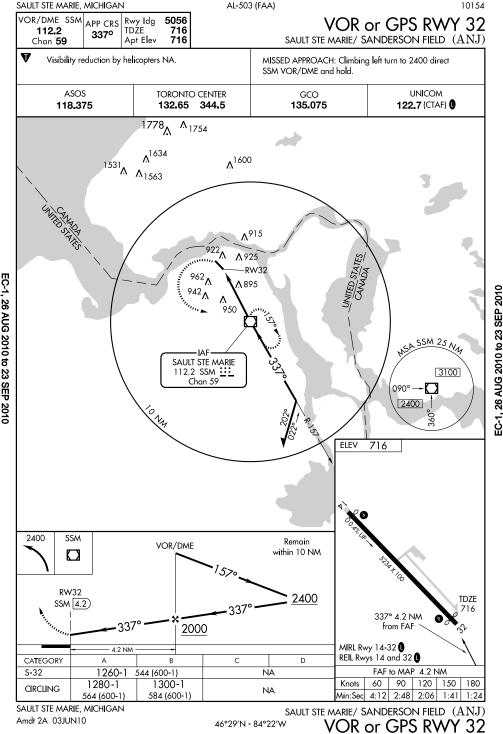
(See MANISTIQUE)

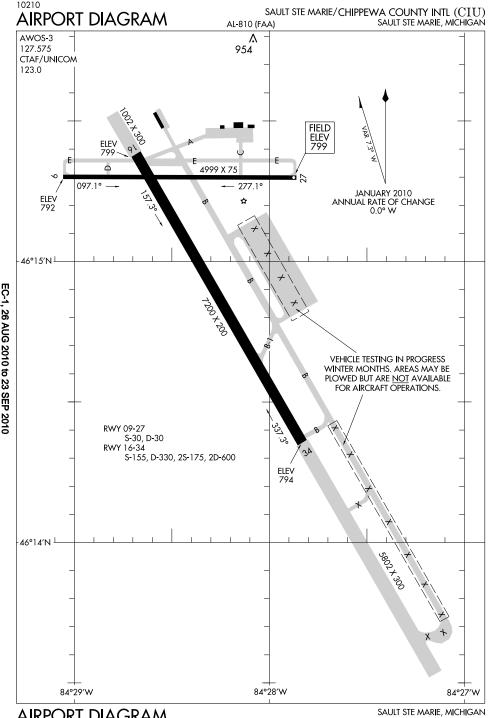
Chan 59 N46°24.73′ W84°18.89′ 335° 4.6 NM to fld. 687/4W. required to establish and maintain two-way communication and obtain ATC clearance from Sault Ste Marie Twr (SOO TOWER 118.8) prior to operating in the Class D Airspace. Traffic Advisory Service (118.8) is avbl in the US

LAKE HIIRON IAP

LAKE HURON H-2K. L-31B

IAP, AD





RWY 16: MALSR. PAPI(P4L)-GA 3.0° TCH 58'. Rgt tfc. RWY 34: REIL. PAPI(P4L)-GA 3.0° TCH 40'. RWY 09-27: H4999X75 (ASPH-GRVD) S-30, D-30

SAULT STE MARIE CHIPPEWA CO INTL (CIU) 15 S UTC-5(-4DT) N46°15.05′ W84°28.34′ FUEL 100LL. JET A

RWY 16-34: H7200X200 (CONC-GRVD)

RWY 09: REIL. PAPI(P4L)—GA 3.0° TCH 40'. Trees.

RWY 27: REIL. PAPI(P4L)-GA 3.0° TCH 40'. Trees. AIRPORT REMARKS: Attended 1100-2300Z‡. After hrs call

906-495-5532. Birds on and invof arpt. 24 hours PPR for call arpt manager on 906-495-5631. Airfield sfc condition

unscheduled air carrier ops with more than 9 passenger seats; unmonitored 2100-1300Z‡. Expect snow removal activity daily Dec-Mar. All twys closed except A, C and D from Dec to Apr. Check NOTAMs for specific schedule or ctc arpt manager 906-495-5631. Vehicle testing in progress during winter months on sections of closed/abandoned parallel twy, SE of apch end Rwy 34. Area may be plowed to bare surface but is not avbl for acft arrivals or departures. ACTIVATE HIRL Rwy 16-34, MIRL Rwy 09-27, PAPI Rwy 16, Rwy 09 and Rwy 27, REIL Rwy 09, Rwy 27 and MALSR Rwy 16 and PAPI and REIL Rwy 34 Apr-Nov-CTAF.

TPA-1600(800)

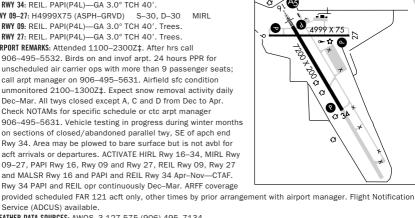
AOE

S-155, D-330, 2S-175, 2D-600

MIRI

Class I. ARFF Index A

HIRL



CHIPPEWA RCO 123.65 (GREEN BAY RADIO) SAULT STE MARIE RCO 122.1R 112.2T (GREEN BAY RADIO) TORONTO CENTER APP/DEP CON 132.65 (SAULT ENROUTE)

WEATHER DATA SOURCES: AWOS-3 127.575 (906) 495-7134.

Service (ADCUS) available.

COMMUNICATIONS: CTAF/UNICOM 123.0

RADIO AIDS TO NAVIGATION: NOTAM FILE CIU. SAULT STE MARIE (H) VOR/DME 112.2 SSM

KOLOE NDB (MH/LOM) 400 CI N46°19.93′ W84°32.53′ NDB unmonitored. ILS 110.3 I-CIU Class IA. Rwy 16.

0430-1000Z<sup>±</sup> Mon-Fri, 0430Z<sup>±</sup> Fri-1145Z<sup>±</sup> Sat and 1715Z<sup>±</sup> Sat-1600Z<sup>±</sup> Sun, ILS unusable MM inbound. Glide slope unusable blo 1012'.

716 FUEL 100LL, JET A NOTAM FILE ANJ

**RWY 14–32**: H5234X100 (ASPH) MIRL (NSTD) RWY 14: REIL. PAPI (P2L)-GA 3.0° TCH 40'. Thid dspicd 180'. RWY 32: REIL. PAPI (P2L)—GA 3.0° TCH 29'. Thid dsplcd 178'. Road. Rgt tfc.

COMMUNICATIONS: CTAF/UNICOM 122.7 TORONTO CENTER APP/DEP CON 132.65 GCO 135.075 (GREEN BAY FSS) RADIO AIDS TO NAVIGATION: NOTAM FILE CIU. SAULT STE MARIE (H) VOR/DME 112.2

SAWYER INTL

SCHIFFER ACRES

SCHOOLCRAFT CO

0.4% up SE

H-2K, 11A, L-31B

Chan 59 N46°24.73′ W84°18.89′ 218° 11.7 NM to fld. 687/4W. 155° 5.7 NM to fld. LOM KOLOE NDB. ILS unmonitored 0430Z‡ Sun-1000Z‡ Mon,

and Rwy 32-CTAF-122.7. US customs on reg call 906-632-2631. WEATHER DATA SOURCES: ASOS 118.375 (906) 632-8501.

COMM/NAV/WEATHER REMARKS: Acft operating within Sault Ste Marie. Ontario Arpt traffic area maintain communications with Sault Ste Marie Ontario twr on frequency 118.8. Pilots operating in Canadian/US Class D Airspace are

SSM

SAULT STE MARIE MUNI/SANDERSON FLD (ANJ) 1SW UTC-5(-4DT) N46°28.75′ W84°22.10′ AIRPORT REMARKS: Attended 1400-2200Z‡. Fuel after hrs self svc with credit card. Deer and birds on and invof arpt. 50' drop off, north end, 200' from rwy end. ACTIVATE MIRL Rwy 14-32, PAPI Rwys 14, Rwy 32 and REIL Rwys 14

Class E Surface Extension 1200-0100Z‡. (See MARQUETTE)

(See ST JOHNS)

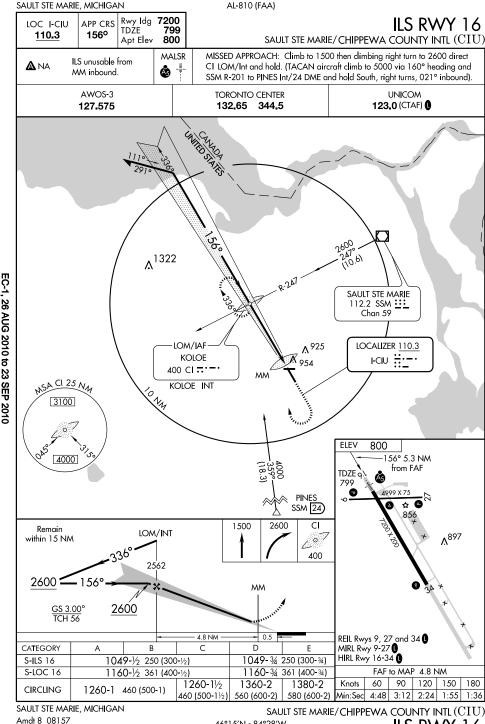
(See MANISTIQUE)

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LAKE HIIRON IAP

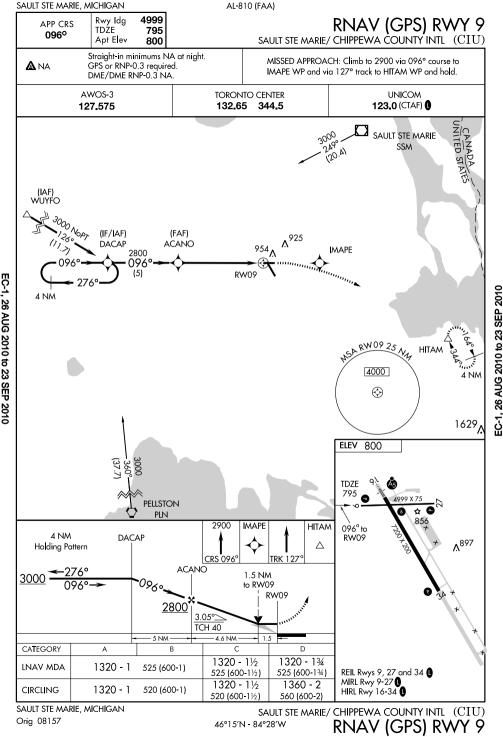
LAKE HURON H-2K. L-31B

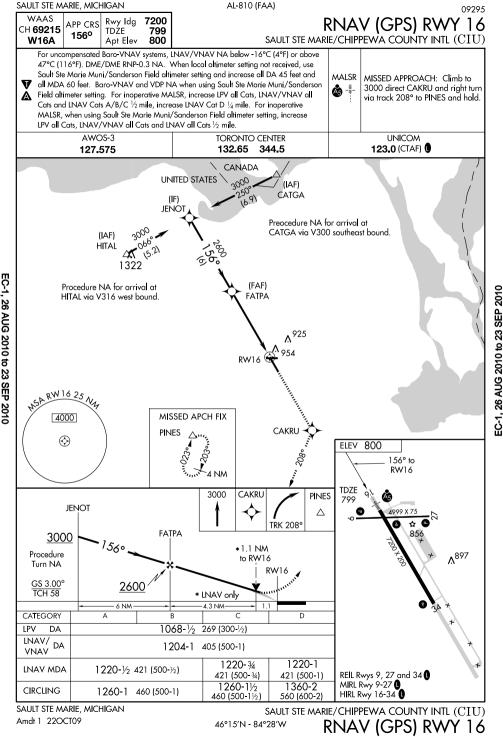
IAP, AD

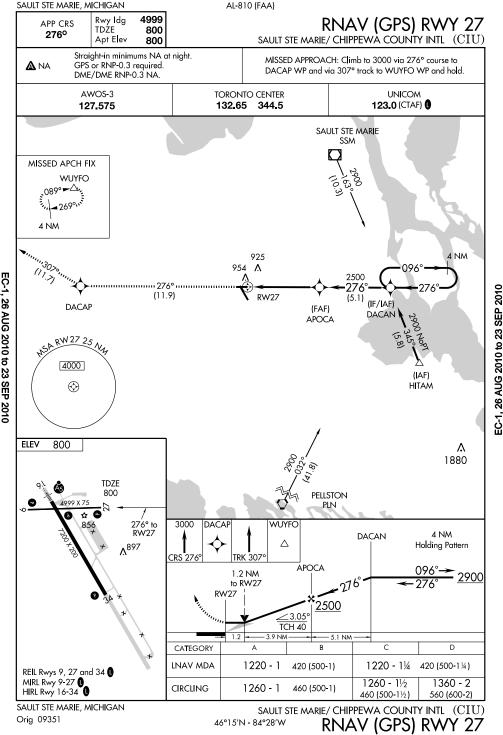


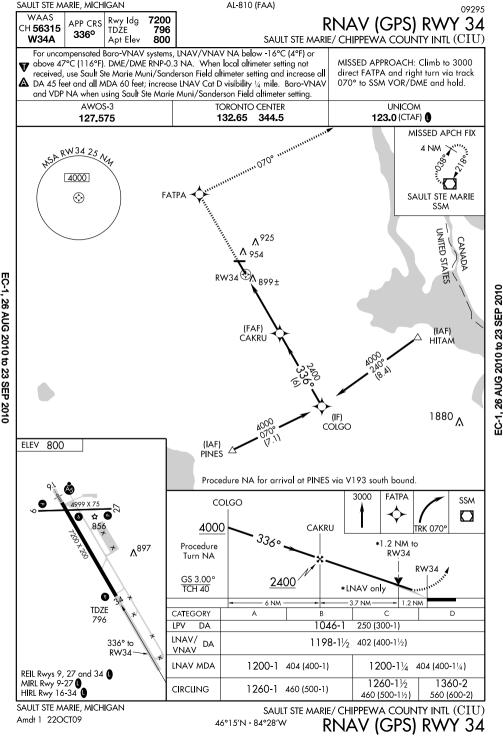
ILS RW

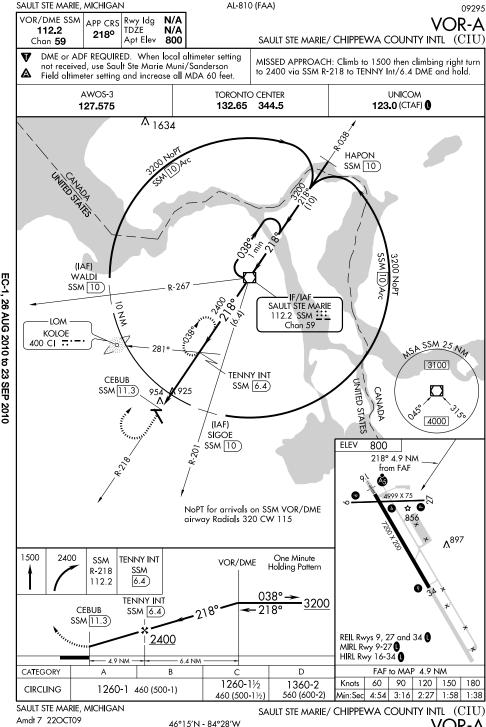
NDB RWY 34



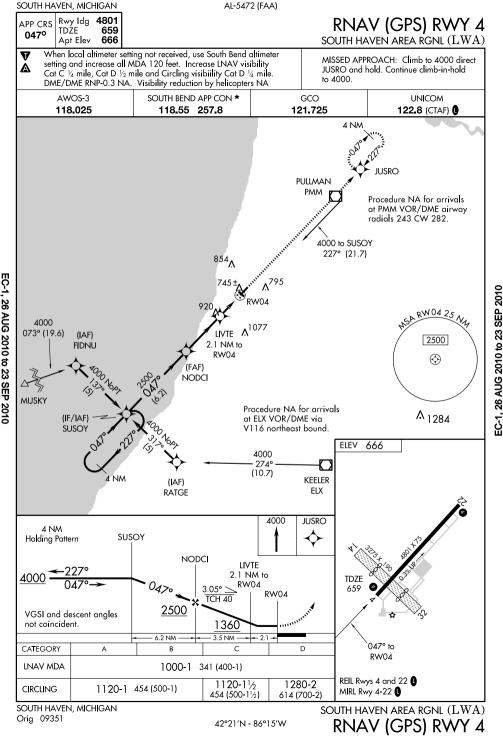


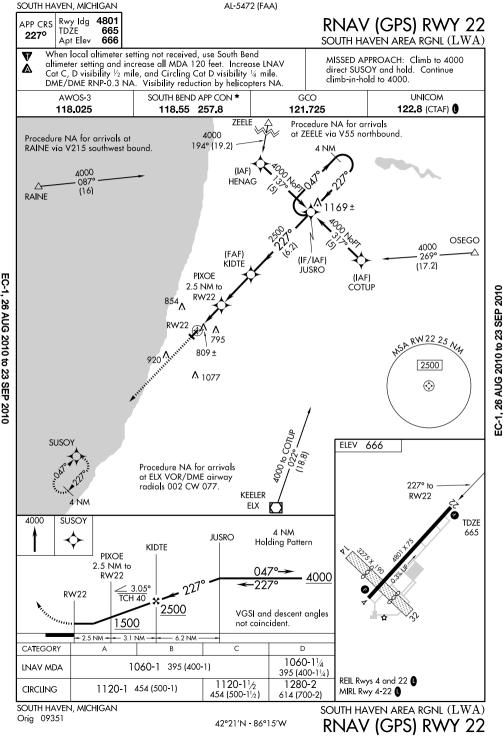


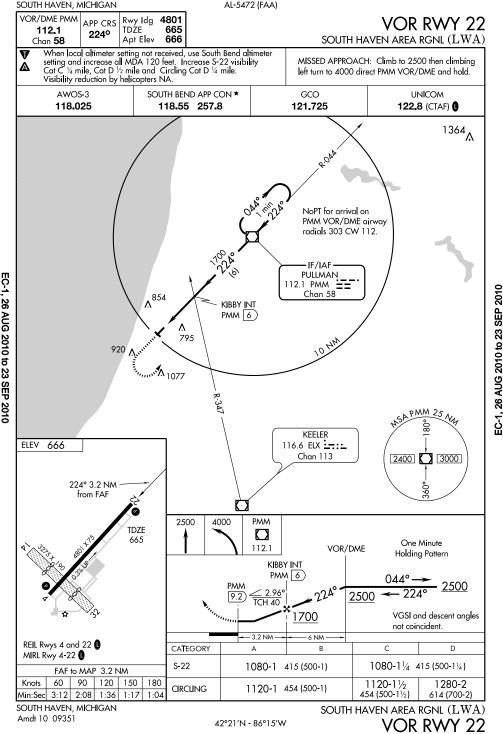




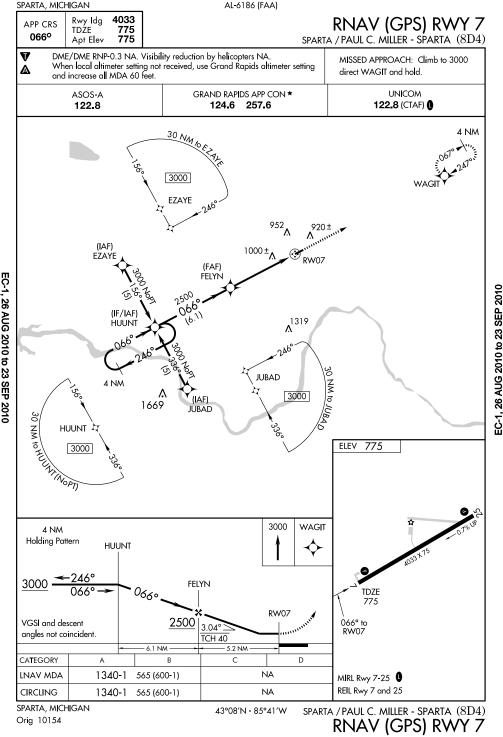
203 MICHIGAN WANTIZ PRICKETT-GROOMS FLD (6Y9) 1 NE UTC-5(-4DT) N46°31.52′ W88°42.35′ **GREEN BAY** NOTAM FILE GRB RWY 10-28: 2600X100 (TURF) RWY 28: Trees. RWY 10: Thid dsplcd 300'. Trees. AIRPORT REMARKS: Unattended, Rwys not plowed, Arpt CLOSED Nov-Apr and when snow covered, Rwy 10-28 sfc soft when wet, call 906-355-2257 to verify condition. Rwy 10-28 marked with 3' yellow cones. Rwy 28 +30' trees, 30' both sides of rwy, 300' from rwy end. COMMUNICATIONS: CTAF 122.9 SILVER CITY AIRPARK (See ALPENA) SKYWAY FSTATES (See EATON RAPIDS) SOUTH HAVEN AREA RGNL (LWA) 3 S UTC-5(-4DT) N42°21.07′ W86°15.34′ CHICAGO L-281 B S4 FUEL 100LL, JET A NOTAM FILE LAN MIRL RWY 04-22: H4801X75 (ASPH) S-12 IAP 0.3% up NE RWY 04: REIL. PAPI (P4L)-GA 3.5° TCH 33'. Trees. RWY 22: REIL. PAPI (P4L)-GA 3.5° TCH 33'. Tree. RWY 14-32: 3275X190 (TURF) RWY 14: Thid dsplcd 963'. Trees. RWY 32: Thid dsplcd 762'. Tree. AIRPORT REMARKS: Attended 1400-2200Z‡. Deer on and invof arpt. Rwy 14 and Rwy 32 dsplcd thlds marked with three 3' yellow cones. MIRL Rwy 04-22 preset low ints; dusk-0400Z‡; to increase ints and ACTIVATE REIL and PAPI Rwy 04 and Rwy 22-CTAF. After 0400Z‡ ACTIVATE CTAF. WEATHER DATA SOURCES: AWOS-3 118.025 (269)637-7016. COMMUNICATIONS: CTAF/UNICOM 122.8 PULLMAN RCO 122.1R, 112.1T (LANSING RADIO) SOUTH BEND APP/DEP CON 118.55 (Sun-Fri 1030-0500Z‡, Sat 1030-0445Z‡, other times ctc CHICAGO CENTER APP/DEP CON 128.5 GCO 121.725 (FLIGHT SERVICES) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. PULLMAN (H) VOR/DME 112.1 PMM Chan 58 N42°27.96′ W86°06.29′ 224° 9.6 NM to fld. 640/00E. SOUTHWEST MICHIGAN RGNL (See BENTON HARBOR) SPARTA PAUL C. MILLER-SPARTA (8D4) 3 SE UTC-5(-4DT) N43°07.63′ W85°40.70′ CHICAGO 775 B S4 FUEL 100LL, MOGAS NOTAM FILE LAN L-281 RWY 07-25: H4033X75 (ASPH) S-24 MIRL IAP RWY 07: REIL. PAPI(P2L)-GA 3.5° TCH 22'. Trees. RWY 25: REIL, PAPI(P2R)—GA 3.5° TCH 27', Trees. 0.7% up W. AIRPORT REMARKS: Attended irregularly. Powered parachute ops north side of rwy. Deer on and invof arpt. ACTIVATE MIRL Rwy 07-25 and PAPI Rwy 07-25-CTAF. WEATHER DATA SOURCES: AWOS-A 132.95 (616) 887-2039. ASOS-A 122.8 (616) 887-2039. COMMUNICATIONS: CTAF/UNICOM 122.8 (R) GRAND RAPIDS APP/DEP CON 124.6 (1030-0500Z±) CHICAGO CENTER APP/DEP CON 128.5 (0500-1030Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE MKG. MUSKEGON (L) VORTACW 115.2 MKG Chan 99 N43°10.16′ W86°02.36′ 100° 16.1 NM to fld. 659/1W. HIWAS. **SPENC** N42°13.20′ W83°12.20′ NOTAM FILE DTW. DETROIT NDB (LOM) 223 DM 272° 6.7 NM to Detroit Metropolitan Wayne Co. STAMBAUGH (See IRON RIVER) STANWOOD CAIN FLD (38C) 2 SE UTC-5(-4DT) N43°36.00' W85°29.59' CHICAGO S4 NOTAM FILE LAN RWY 18-36: 3450X100 (TURF) RWY 18: Thid dspicd 486', Trees. RWY 36: Thid dsplcd 384'. Tree. AIRPORT REMARKS: Attended irregularly. Fuel avbl for emergencies only. Radio control acft activity on and invof arpt. Occasional deer activity on and invof arpt. Rwy 18-36 and dsplcd thlds marked with 3' yellow cones. COMMUNICATIONS: CTAF 122.9 STURGIS N41°48.79′ W85°26.03′ NOTAM FILE IRS. CHICAGO NDB (MHW) 382 IRS at Kirsch Muni. L-281

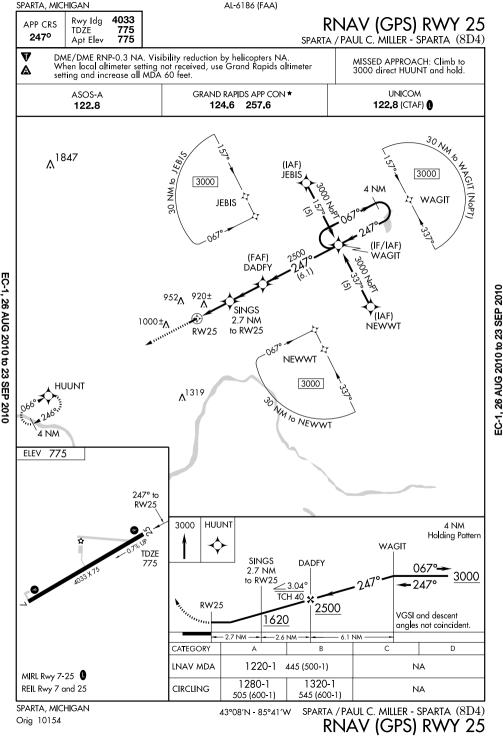






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RWY 09: Trees. RWY 27: Building.

downward E to W: Rwy soft in spring, Radio control acft ops on arpt. Rwy 09-27 marked with 3' yellow cones. COMMUNICATIONS: CTAF 122.9

AIRPORT REMARKS: Attended irregularly. 15' tree N side of rwy on rwy edge, 132' E of Rwy 09. Rwy 27 terrain slopes

RANDOLPH'S LANDING AREA (61G) 7 NE UTC-5(-4DT) N43°06.75' W84°31.25' 700 NOTAM FILE LAN

RWY 05-23: 2175X100 (TURF) RWY 05: Thid dspicd 767', Road.

AIRPORT REMARKS: Attended irregularly. Deer on and invof arpt. Rwy 23 3' fence L side 65' from centerline. Rwy

DETROIT 05-23 and dsplcd thids marked with yellow tires; Rwy 05 dsplcd thid marked with 6 yellow tires 3 each side.

COMMUNICATIONS: CTAF 122.9

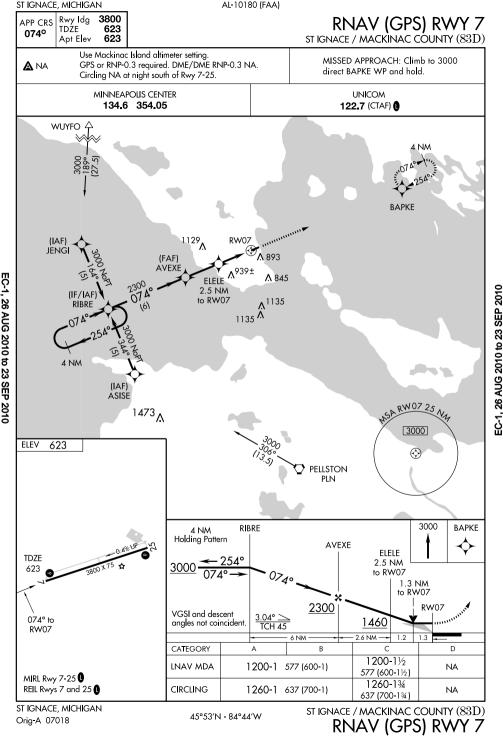
SCHIFFER ACRES (3S5) 4 E UTC-5(-4DT) N43°02.15' W84°26.03' DETROIT

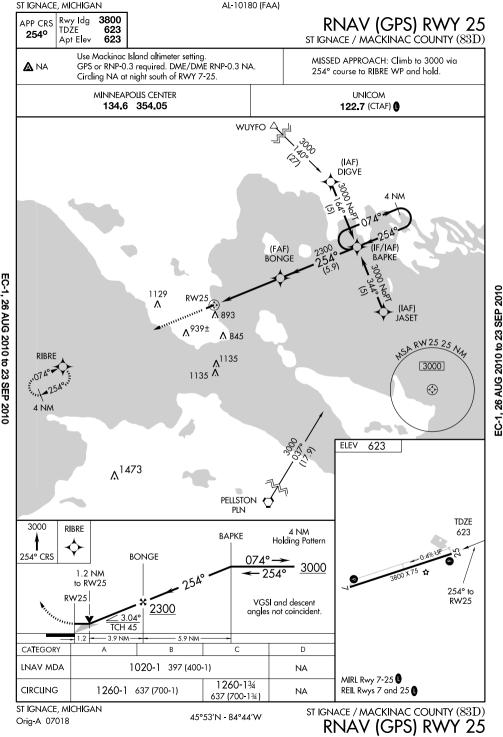
S4 NOTAM FILE LAN RWY 07-25: 2777X120 (TURF)

RWY 07: Rgt tfc. Trees. RWY 25: Thid dsplcd 798'. Trees.

AIRPORT REMARKS: Attended irregularly. Power plant repairs are for emerg use only. Extensive summer agricultural ops. Deer and turkeys on and invof rwy. Rwy 07-25 LIRL not for public use. Rwy 25 displaced thid marked by 3 vellow tires each side of rwy. Rwy defined by mowing.

COMMUNICATIONS: CTAF 122 9





204 MICHIGAN

FUEL 100LL JET A1 +

RWY 18: REIL, PAPI(P4L)—GA 3.0° TCH 27', Trees.

RWY 36: REIL, PAPI(P4L)—GA 3.0° TCH 25', Trees. RWY 06-24: H3451X75 (ASPH) S-19. D-25. DT-58

# RWY 18-36: H5200X100 (ASPH) S-47, D-57,5 2D-90

KIRSCH MUNI

**STURGIS** 

COMMUNICATIONS: CTAF/UNICOM 123.05

(IRS)

S4

0.3% up NE.

RWY 06: Trees. RWY 24: REIL, PAPI(P2L)-GA 4.0° TCH 22', Trees.

2 NW UTC-5(-4DT) N41°48.80' W85°26.34'

Chan 27 N42°14.22'

OX 4 TPA-1924(1000)

MIRI

NOTAM FILE IRS

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CHICAGO

DETROIT

**GREEN BAY** 

DETROIT

COPTER

L-28J IAP

IAP

H-5E, 10F, L-28I

AIRPORT REMARKS: Attended 1300Z±-dusk, Rwv 18-36 MIRL OTS indef, ACTIVATE MIRL Rwy 06-24 and Rwy 18-36, REIL Rwy 18

and Rwy 24, PAPI Rwy 24, Rwy 18, and Rwy 36-CTAF. WEATHER DATA SOURCES: AWOS-3 121.325 (269) 659-8715.

(R) KALAMAZOO APP/DEP CON 121.2 (1100-0400Z±) KALAMAZOO CLNC DEL 133.55 R CHICAGO CENTER APP/DEP CON 127.55 (0400-1100Z‡)

170° 25.9 NM to fld. 870/1W. STURGIS NDB (MHW) 382 IRS N41°48.79′ W85°26.03′

RADIO AIDS TO NAVIGATION: NOTAM FILE AZO. KALAMAZOO (L) VOR/DME 109.0 AZO

NOTAM FILE IRS SUGAR LOAF RESORT (See TRAVERSE CITY)

# SUNFIELD

HIRAM CURE (C43) 2 NE UTC-5(-4DT) N42°46,20′ W84°57,90′

NOTAM FILE LAN RWY 09-27: 2314X100 (TURF)

RWY N9. Tree AIRPORT REMARKS: Attended irregularly. Arpt CLOSED Dec thru Mar and when snow covered. Rwy 09-27 soft when wet, Deer invof rwy, Crops adjacent to rwy, Rwy 09-27 marked with 3' vellow cones,

COMMUNICATIONS: CTAF 122 9 SUOMI N46°15.71′ W87°24.97′ NOTAM FILE SAW.

013° 5.6 NM to Sawyer Intl.

S-6

NOTAM FILE LAN

NDB (LOM) 410 SO **TACKABERRY** (See AVOCA)

**TECUMSEH** MEYERS-DIVER'S

(3TE) S3 FUEL 100LL

RWY 18-36: H2660X75 (ASPH) RWY 18: Thid dsplcd 780'. Trees.

RWY 09: Trees.

RWY 09-27: 1820X100 (TURF) RWY 27: Post.

AIRPORT REMARKS: Attended 1300-2300Z±, Fuel avbl Mon-Sat 1300-2230Z±, Parachute Jumping, Skydiving activity,

Rwy 18-36 pavement cracking. Rwy 09-27 not plowed after winter storms. Maintenance for Meyers acft only.

Rwv 18-36 acft Ind/tkof adjacent W of asph rwv. Area not marked to delineate area being used. Rwv 09-27

marked with tires: Rwv 09 dsplcd thid marked with three tires each side. ACTIVATE LIRL Rwv 18-36-CTAF.

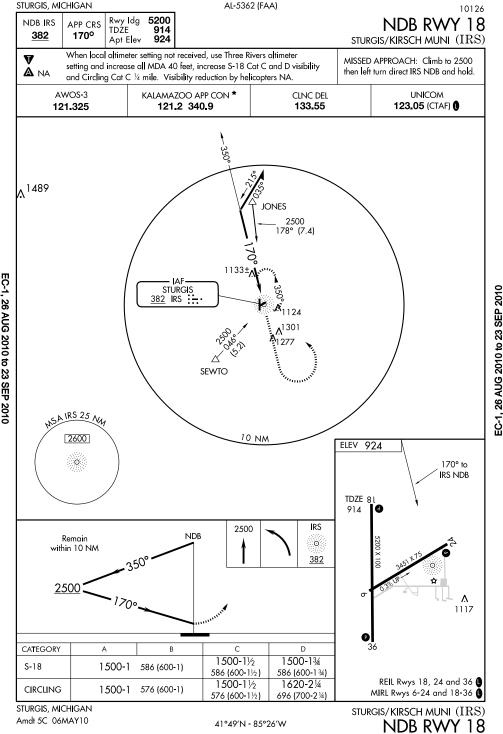
COMMUNICATIONS: CTAF 122.9

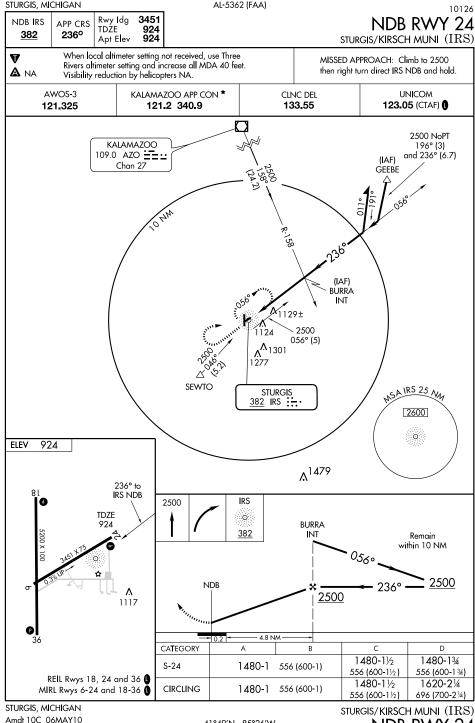
(R) DETROIT APP/DEP CON 118.95 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. CARLETON (H) VORTAC 115.7 CRL Chan 104 N42°02.88' W83°27.45' 270° 21.6 NM to fld. 629/3W. **RAWIH** 

2 N UTC-5(-4DT) N42°01.51' W83°56.35'

RWY 36: Thid dspicd 500', Trees, Rgt tfc.

LIRL 0.6% up N





Amdt 10C 06MAY10

EC-1, 26 AUG 2010 to 23 SEP 2010

NDB RWY 24

204 MICHIGAN

FUEL 100LL JET A1 +

RWY 18: REIL, PAPI(P4L)—GA 3.0° TCH 27', Trees.

RWY 36: REIL, PAPI(P4L)—GA 3.0° TCH 25', Trees. RWY 06-24: H3451X75 (ASPH) S-19. D-25. DT-58

# RWY 18-36: H5200X100 (ASPH) S-47, D-57,5 2D-90

KIRSCH MUNI

**STURGIS** 

COMMUNICATIONS: CTAF/UNICOM 123.05

(IRS)

S4

0.3% up NE.

RWY 06: Trees. RWY 24: REIL, PAPI(P2L)-GA 4.0° TCH 22', Trees.

2 NW UTC-5(-4DT) N41°48.80' W85°26.34'

Chan 27 N42°14.22'

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NOTAM FILE IRS

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CHICAGO

DETROIT

**GREEN BAY** 

DETROIT

COPTER

L-28J IAP

IAP

H-5E, 10F, L-28I

AIRPORT REMARKS: Attended 1300Z±-dusk, Rwv 18-36 MIRL OTS indef, ACTIVATE MIRL Rwy 06-24 and Rwy 18-36, REIL Rwy 18

and Rwy 24, PAPI Rwy 24, Rwy 18, and Rwy 36-CTAF. WEATHER DATA SOURCES: AWOS-3 121.325 (269) 659-8715.

(R) KALAMAZOO APP/DEP CON 121.2 (1100-0400Z±) KALAMAZOO CLNC DEL 133.55 R CHICAGO CENTER APP/DEP CON 127.55 (0400-1100Z‡)

170° 25.9 NM to fld. 870/1W. STURGIS NDB (MHW) 382 IRS N41°48.79′ W85°26.03′

RADIO AIDS TO NAVIGATION: NOTAM FILE AZO. KALAMAZOO (L) VOR/DME 109.0 AZO

NOTAM FILE IRS SUGAR LOAF RESORT (See TRAVERSE CITY)

# SUNFIELD

HIRAM CURE (C43) 2 NE UTC-5(-4DT) N42°46,20′ W84°57,90′

NOTAM FILE LAN RWY 09-27: 2314X100 (TURF)

RWY N9. Tree AIRPORT REMARKS: Attended irregularly. Arpt CLOSED Dec thru Mar and when snow covered. Rwy 09-27 soft when wet, Deer invof rwy, Crops adjacent to rwy, Rwy 09-27 marked with 3' vellow cones,

COMMUNICATIONS: CTAF 122 9 SUOMI N46°15.71′ W87°24.97′ NOTAM FILE SAW.

013° 5.6 NM to Sawyer Intl.

S-6

NOTAM FILE LAN

NDB (LOM) 410 SO **TACKABERRY** (See AVOCA)

**TECUMSEH** MEYERS-DIVER'S

(3TE) S3 FUEL 100LL

RWY 18-36: H2660X75 (ASPH) RWY 18: Thid dsplcd 780'. Trees.

RWY 09: Trees.

RWY 09-27: 1820X100 (TURF) RWY 27: Post.

AIRPORT REMARKS: Attended 1300-2300Z±, Fuel avbl Mon-Sat 1300-2230Z±, Parachute Jumping, Skydiving activity,

Rwy 18-36 pavement cracking. Rwy 09-27 not plowed after winter storms. Maintenance for Meyers acft only.

Rwv 18-36 acft Ind/tkof adjacent W of asph rwv. Area not marked to delineate area being used. Rwv 09-27

marked with tires: Rwv 09 dsplcd thid marked with three tires each side. ACTIVATE LIRL Rwv 18-36-CTAF.

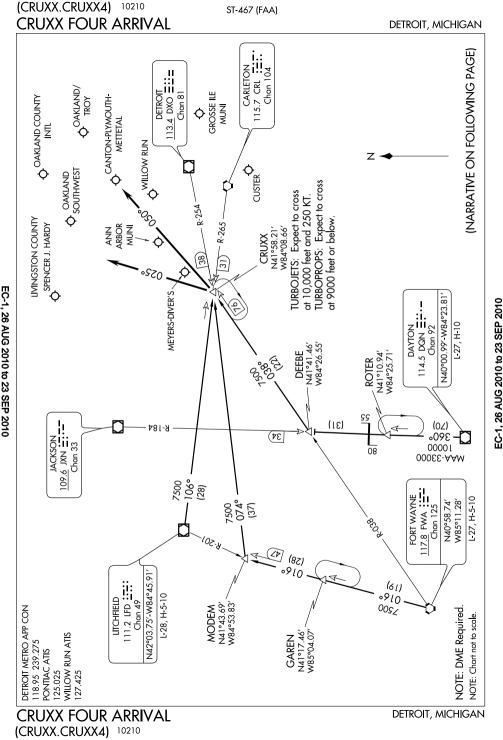
COMMUNICATIONS: CTAF 122.9

(R) DETROIT APP/DEP CON 118.95 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. CARLETON (H) VORTAC 115.7 CRL Chan 104 N42°02.88' W83°27.45' 270° 21.6 NM to fld. 629/3W. **RAWIH** 

2 N UTC-5(-4DT) N42°01.51' W83°56.35'

RWY 36: Thid dspicd 500', Trees, Rgt tfc.

LIRL 0.6% up N



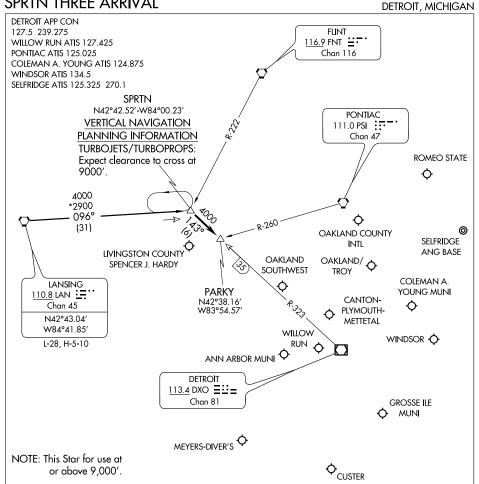
### ARRIVAL DESCRIPTION

DAYTON TRANSITION (DQN.CRUXX4): From over DQN VOR/DME via DQN R-360 and JXN R-184 to DEEBE INT and FWA R-038 to CRUXX INT. Thence . . . . FORT WAYNE TRANSITION (FWA.CRUXX4): From over FWA VORTAC via FWA R-016 to MODEM INT and DXO R-254 to CRUXX INT. Thence . . . . LITCHFIELD TRANSITION (LFD.CRUXX4): From over LFD VORTAC via LFD R-106 to CRUXX INT. Thence . . . .

.... Aircraft landing Y47, PTK, OMI7, ØZW, ONZ, 1D2, TTF, VLL: From over CRUXX INT via 025° heading.

. . . . Aircraft landing YIP or ARB: From over CRUXX INT via 050° heading.

Expect radar vector to final approach course.



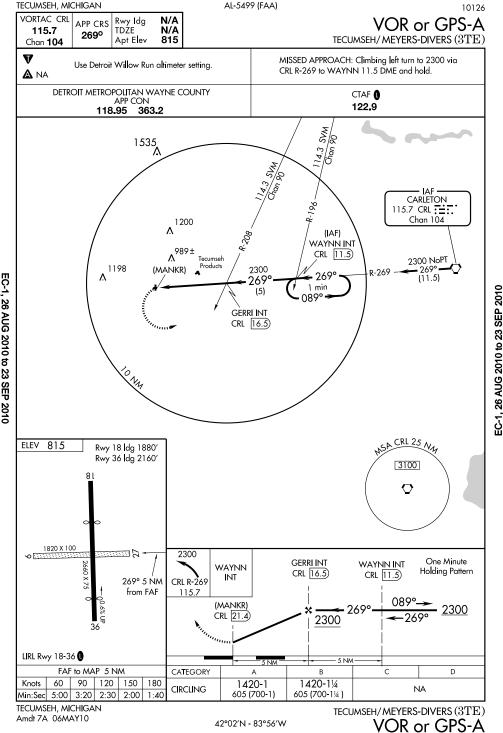
LANSING TRANSITION (LAN.SPRTN3): From over LAN VORTAC via LAN R-096 to SPRTN INT. Thence . . . .

. . . . Aircraft landing: DET, PTK, VLL, D98, MTC, ARB, YIP, ONZ, 1D2, TTF, Y47, 36MI, OZW, 3TE, YQG: From over SPRTN INT via DXO R-323

to PARKY INT. Thence . . . .

. . . . Expect radar vectors to final approach course.

NOTE: Chart not to scale.



205 MERILLAT 3 SE UTC-5(-4DT) (34G) N41°58.50′ W83°55.51′ DETROIT COPTER S4 FUEL 100LL NOTAM FILE LAN RWY 18-36: 3608X100 (TURF) LIRL RWY 18: Thid dsplcd 261'. Trees. RWY 36: Thid dpicd 486'. Fence. AIRPORT REMARKS: Attended 1400-2200Z‡. Ultralight activity on and invof arpt. Rwy 18-36 opposite rwy not visible from thid. Rwy 18-36 LIRL not for public use. Airframe and power plant repairs by prior arrangement, call arpt attendant 517-423-7600. Rwv 18-36 marked with cones; dsplcd thid marked with three 3' vellow cones each side. ACTIVATE rotating bcn-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8

(2T7) 5 NE UTC-5(-4DT) N42°01.15' W83°50.92'

DETROIT

COPTER

HELIPORT REMARKS: Attended irregularly. Helipad H1 marked with cones. 35' tree 102' from heliport at 180°, apch ratio 2:1, 60' tree 80' from heliport at 270° apch ratio 2:1. COMMUNICATIONS: CTAF 122.9 THOMPSONVILLE (7Y2) 2 W UTC-5(-4DT) N44°31.00′ W85°58.51′ 793 B NOTAM FILE LAN RWY 09-27: H2900X75 (ASPH) D-12.5 LIRL

**GREEN BAY** RWY 09: Thid dspicd 50'. Road. Rgt tfc. RWY 27: PAPI(P2L)-GA 4.0° TCH 20'. Trees. RWY 17-35: H2475X150 (TURF) RWY 17: Thid dsplcd 1220'. Trees. RWY 35: Thid dspicd 1100', Trees, Rgt tfc. AIRPORT REMARKS: Unattended. Rwy 17-35 CLOSED Nov thru Mar and when snow covered. Rwys not plowed. Rwy 17-35 surface rough. +450' unlighted ski hill ½ mile west of arpt. Radio controlled model acft, ultralight and

glider activity. Arpt rotating bcn on ski hill 450' above arpt elevation 1.0 miles northwest. ACTIVATE LIRL Rwy 09-27 and PAPI Rwy 27—CTAF. Rwy 17-35 and dsplcd thids marked with 3' yellow cones. COMMUNICATIONS: CTAF 122.9

THREE RIVERS MIINI DR HAINES (HAI) 2 NE UTC-5(-4DT) N41°57.59' W85°35.60' FUEL 100LL, JET A TPA-1824(1000) NOTAM FILE LAN

CHICAGO L-281 MIRL IAP RWY 09-27: H4000X75 (ASPH) S-26, D-30 RWY 09: REIL, PAPI(P4L)-GA 3.5° TCH 25'. RWY 27: REIL. PAPI(P4L)—GA 3.5° TCH 29'. Trees. RWY 05-23: H2729X60 (ASPH) S-16

RWY 05: Road. RWY 23: Road. AIRPORT REMARKS: Attended 1300Z‡-dusk. Rwy 05-23 PAEW. Snow plowing second priority, call to confirm conditions. Rwy 05 vertical clnc over road waived by FAA (10/06/2009) ALP apvl letter. Possibility of crop

irrigation equipment ops in NE apch to Rwy 23. Radio controlled airplanes opr S of apch end Rwy 27. MIRL Rwys 09-27 and Rwy 05-23 and PAPI Rwy 09 and Rwy 27 and REIL Rwy 09 and Rwy 27-CTAF. WEATHER DATA SOURCES: AWOS-3 119.975 (269) 273-6705.

COMMUNICATIONS: CTAF/UNICOM 122.8

(R) KALAMAZOO APP/DEP CON 121.2 (1100-0400Z±) (R) CHICAGO CENTER APP/DEP CON 127.55 (0400-1100Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE AZO. KALAMAZOO (L) VOR/DME 109.0 AZO Chan 27 N42°14.22′ W85°33.19′ 187° 16.7 NM to fld. 870/1W.

NDB (MHW) 407 HAI N41°57.50′ W85°35.50′ on fld. NOTAM FILE LAN. OTS indef.

TOLEDO SUBURBAN (See LAMBERTVILLE)

TOPINABFF

PBEAAYE (Y3Ø) 3 NE UTC-5(-4DT) N45°31.87′ W84°33.42′ LAKE HURON 690 NOTAM FILE LAN RWY 01-19: 2470X90 (TURF) RWY 01: Thid dspicd 450'. Trees. RWY 19: Thid dspicd 800'. Trees.

AIRPORT REMARKS: Attended irregularly. Deer and birds invof arpt. Winter ops skis only. Trees in primary sfc; all quadrants. Rwy 01-19 rwy sfc rolling terrain, rough. Rwy 01-19 and dsplcd thlds marked with cones. +60' windsock located at north end. COMMUNICATIONS: CTAF 122.9

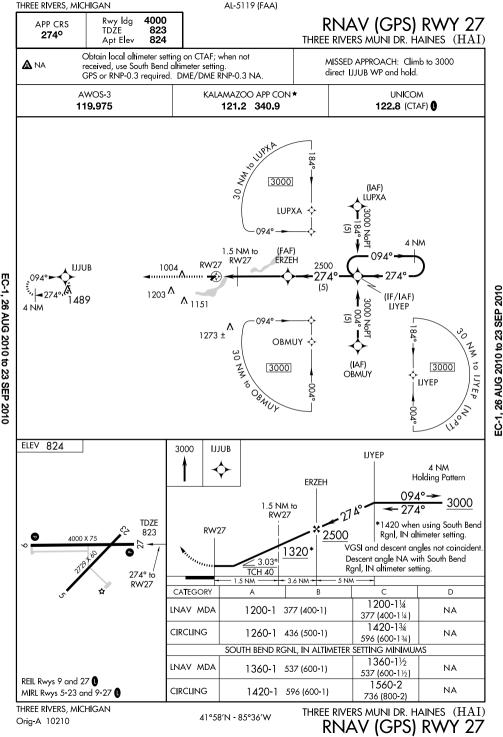
TORCHPORT (See FASTPORT)

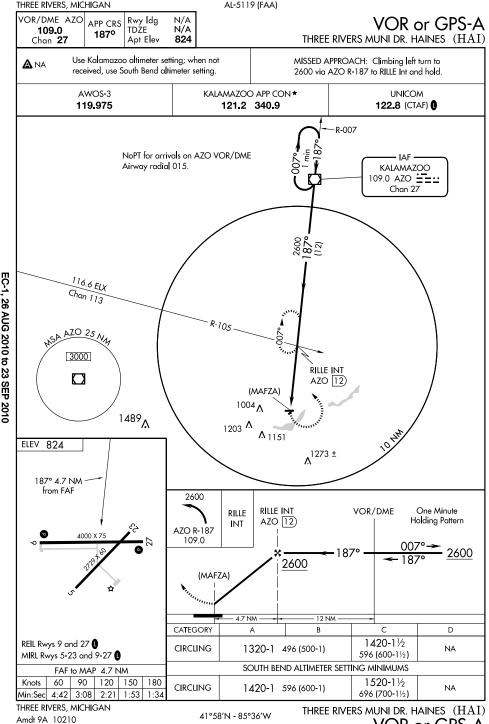
VAN CAMP'S HELIPORT

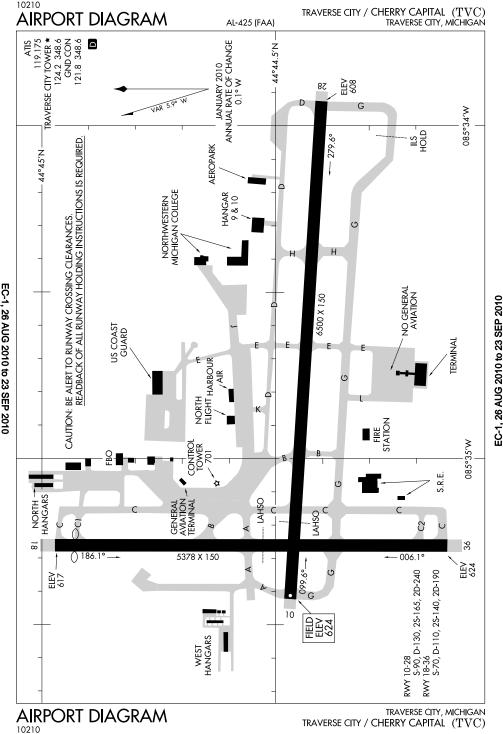
HELIPAD H1: 90X50 (TURF)

NOTAM FILE LAN

740 S4







TRAVERSE CITY

TRAVERSE CITY CHERRY CAPITAL

N44°40.07′ W85°33.00′ (H) VORTACW 114 6 TVC Chan 93 345° 4.6 NM to Cherry Capital, 912/2W. HIWAS.

DME portion unusable 020°-335° byd 30 NM blo 3500'.

VOR portion unusable 276°-334° bvd 20 NM blo 5000′. VOR portion unusable 063°-157° bvd 16 NM blo 2600: 063°-157° byd 27 NM blo 5000'.

NOTAM FILE TVC

RCO 122.65 122.2 (LANSING RADIO)

**S4** 

(TVC)

RWY 10: VASI(V4L)-GA 3.0° TCH 46'. Tree. RWY 28: MALSR, PAPI(P4L)-GA 2.9° TCH 52', Tower,

RWY 18-36: H5378X150 (ASPH-PFC) S-70, D-110, 2S-140. 2D-190 MIRL

RWY 18: VASI(V4L)-GA 3.0° TCH 50', Thid dsplcd 270', Trees. RWY 36: REIL. VASI(V4L)-GA 3.0° TCH 50'. Tree.

LAND AND HOLD SHORT OPERATIONS LANDING HOLD SHORT POINT DIST AVRI **RWY 18** 10-28 2850

**RWY 28** 18-36

TORA-6500 TODA-6500 ASDA-6500

RUNWAY DECLARED DISTANCE INFORMATION RWY 10-LDA-6500 RWY 18: TORA-5379 TODA-5379 ASDA-5109 LDA-4839 RWY 28-TORA-6500 TODA-6500 ASDA-6500 LDA-6500

RWY 36: TORA-5379 TODA-5379 ASDA-5109 LDA-5109 AIRPORT REMARKS: Attended Oct-Apr 1200-0200Z‡, May-Sep 1200-0300Z‡. During hrs when arpt is unattended call arpt ops 231-313-0928 or FBO at 231-929-1126. Arpt CLOSED to unscheduled air carrier acft with over 30 passenger seats without

conditions unmonitored btn 0600-0900Z±, ACTIVATE HIRL Rwv 10-28, MIRL Rwv 18-36, VASI Rwv 18 and MALSR Rwy 28 and REIL Rwy 36—CTAF. Ldg fee based on acft weight, private owned single engine acft exempt. WEATHER DATA SOURCES: ASOS (231) 933-0401. HIWAS 114.6 TVC.

TRAVERSE CITY RCO 122.65 122.2 (LANSING RADIO)

(R) MINNEAPOLIS CENTER APP/DEP CON 132.9 TRAVERSE CITY TOWER 124.2 (1200-0200Z, 1100-0200Z EDT) GND CON 121.8

Rwv 28.

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

Class IE.

AIRSPACE: CLASS D svc (1200-0200Z, 1100-0200Z EDT) other times CLASS E. RADIO AIDS TO NAVIGATION: NOTAM FILE TVC.

COMMUNICATIONS: CTAF 124.2 ATIS 119.175

I-TVC

**2AWIH** 

UNICOM 122.95

GWENN NDB (MH/LOM) 365 TV N44°44.07′ W85°25.76′ 279° 6.6 NM to fld. Unmonitored when twr clsd.

2 S UTC-5(-4DT) N44°44.50′ W85°34.94′ **GREEN BAY** FUEL 100LL, JET A LRA Class I. ARFF Index B NOTAM FILE TVC H-2K. L-31B RWY 10-28: H6500X150 (ASPH-PFC) S-90, D-130, 2S-165, 2D-240 HIRL IAP. AD

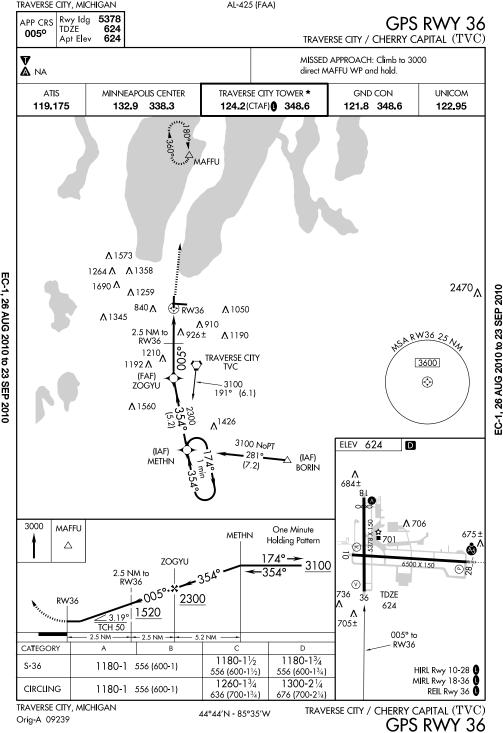
GREEN RAY

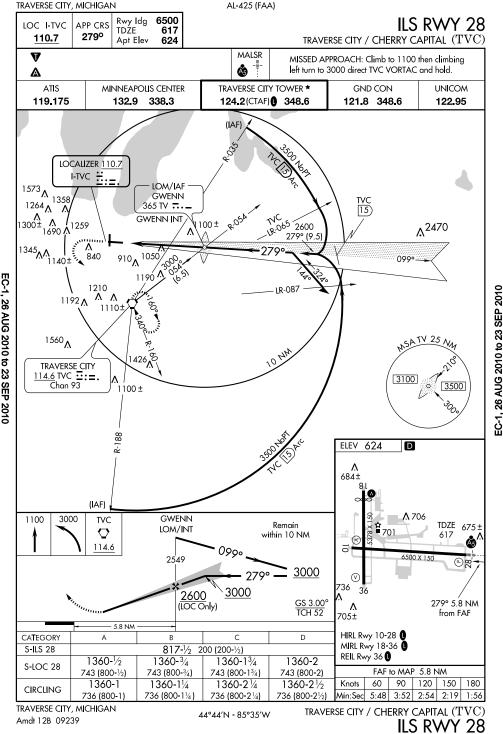
H-2K. L-31B

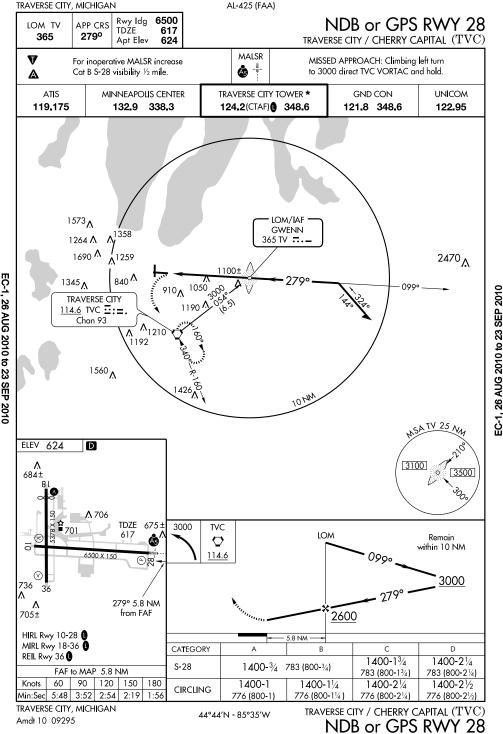
TRAVERSE CITY (H) VORTACW 114.6 TVC Chan 93 N44°40.07′ W85°33.00′ 345° 4.6 NM to fld. 912/2W.

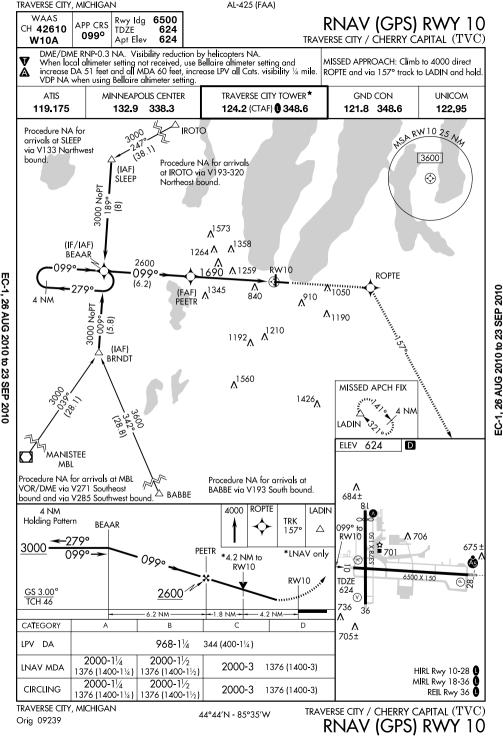
LOM GWENN NDB. ILS and LOM unmonitored when twr clsd.

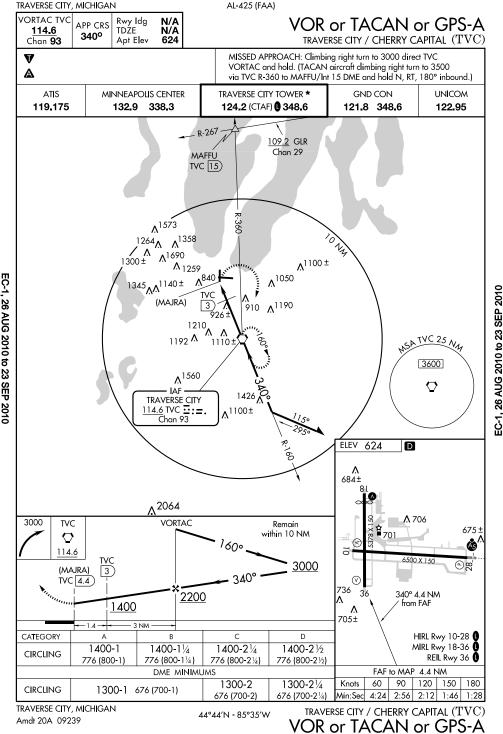
48 hour prior permission—call 231-947-2250, CAUTION: Birds and deer on and invof arpt, Twy C-1 east of Twy C not avbl to air carrier acft. Snow removal ops in progress winter months. Snow Command will be monitoring CTAF during non-twr hours. Acft Idg/departing TVC should announce their intentions on CTAF when twr clsd. Fit crews should read back all advisory information provided by Snow Command. Arpt surface











MICHIGAN 14 NW UTC-5(-4DT) N44°54.75′ W85°48.84′ **GREEN BAY** 

√×+300

AIRPORT REMARKS: Unattended. Ski hill adjacent to rwy NW side. Adjacent ski facility CLOSED. +10' hill on each side of rwy, 10' from payement edges in midsection of rwy. Pedestrians and golf course adjacent to rwy N end, pedestrians and equipment

SUGAR LOAF RESORT (YØ4)

NOTAM FILE LAN

RWY 02-20: H3519X50 (ASPH) RWY 02: Trees.

825

crossing rwy. Rwy 02-20 extensive pavement cracking. WEATHER DATA SOURCES: HIWAS 114.6 TVC. COMMUNICATIONS: CTAF 122.9

NOTAM FILE MNM.

RWY 20: Thid dspicd 572'. Trees.

RADIO AIDS TO NAVIGATION: NOTAM FILE TVC. TRAVERSE CITY (H) VORTACW 114.6 TVC Chan 93 N44°40.07' W85°33.00' 325° 18.5 NM to fld. 912/2W. HIWAS

C3 C3 3 €3 €3 ଓ୍ଓଓ ∎ ଓ ଓ ଓ ଓ *(*3 G C3 C3 €3 €3 €3 €3 €3 €3 C3 C3 3 €3 O O G G æ €3 €3 C3 ්ය ය 3 G €3 G G **3** C3 63 <3 000 G G (3 (3 a 0 a 43 **GREEN BAY** 

207

L-31B

DETROIT

COPTER

L-28J. A

TRIBE N45°03.70′ W87°41.76′ NDR (INM) 239 TN 035°4.6 NM to Menominee-Marinette Twin Co.

TRIPLE H (See PARCHMENT) TRIPP CREEK

### (See ST JOHNS) TROY

OAKLAND/TROY

(VLL) 2 E UTC-5(-4DT) N42°32.58′ W83°10.67′ FUEL 100LL, JET A TPA-1727(1000)

RWY 09-27: H3549X60 (ASPH) MIRL 0.7% up W

RWY 09: PAPI(P2R)-GA 4.0° TCH 30', P-line.

AIRPORT REMARKS: Attended Sep-May Mon-Fri 1300-2300Z‡ Sat-Sun 1300-2300Z±, Jun-Aug Mon-Fri 1300-0100Z±, Sat-Sun 1300-2300Z‡. Deer and birds on and invof arpt. No touch and go landings or practice traffic patterns. Rwy 09 +3' berm 316' from thid. ACTIVATE MIRL Rwy 09-27 and PAPI Rwy 09 and Rwy

RWY 27: PAPI(P2L)-GA 4.0° TCH 31'. Building.

27-CTAF. WEATHER DATA SOURCES: AWOS-3 119.475 (248) 288-4649. COMMUNICATIONS: CTAF/UNICOM 123.05 CLNC DEL 121.725

(R) DETROIT APP/DEP CON 126.85 RADIO AIDS TO NAVIGATION: NOTAM FILE PTK. PONTIAC (L) VORTAC 111.0 PSI Chan 47 N42°42.05'

W83°31.97' 124° 18.4 NM to fld. 1148/3W. COMM/NAV/WEATHER REMARKS: For CLNC DEL key frequency 121,725 4 times. To contact FSS key freg 121.725 6 times. One second on/one second off: monitor 121,725 while electronic equipments

**TULIP CITY** (See HOLLAND) TUSCOLA AREA

VAN WAGNEN

(See CARO)

dials Detroit CLNC DEL/Lansing FSS.

UNIVERSITY AIRPARK

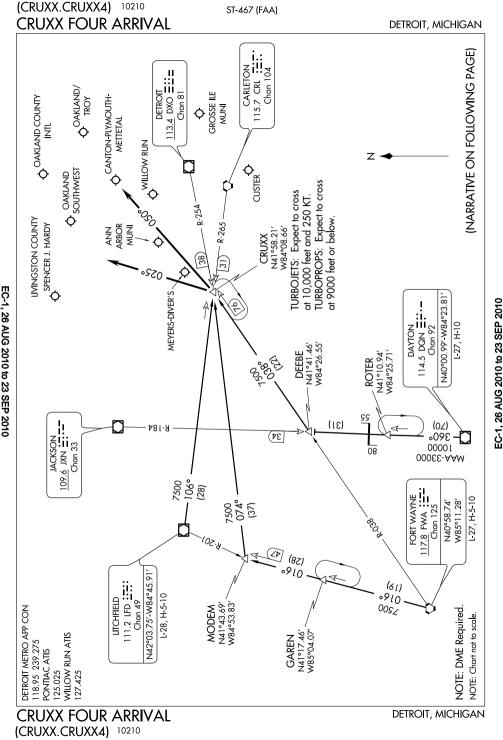
VAN CAMP'S HELIPORT

(See TECUMSEH)

NOTAM FILE LAN

(See BATH)

(See NAPOLEON)



### ARRIVAL DESCRIPTION

DAYTON TRANSITION (DQN.CRUXX4): From over DQN VOR/DME via DQN R-360 and JXN R-184 to DEEBE INT and FWA R-038 to CRUXX INT. Thence . . . . FORT WAYNE TRANSITION (FWA.CRUXX4): From over FWA VORTAC via FWA R-016 to MODEM INT and DXO R-254 to CRUXX INT. Thence . . . . LITCHFIELD TRANSITION (LFD.CRUXX4): From over LFD VORTAC via LFD R-106 to CRUXX INT. Thence . . . .

.... Aircraft landing Y47, PTK, OMI7, ØZW, ONZ, 1D2, TTF, VLL: From over CRUXX INT via 025° heading.

. . . . Aircraft landing YIP or ARB: From over CRUXX INT via 050° heading.

Expect radar vector to final approach course.

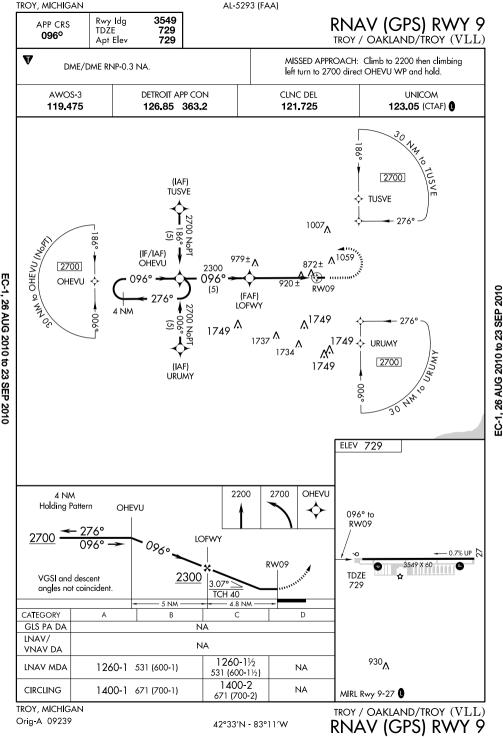
NOTE: Chart not to scale.

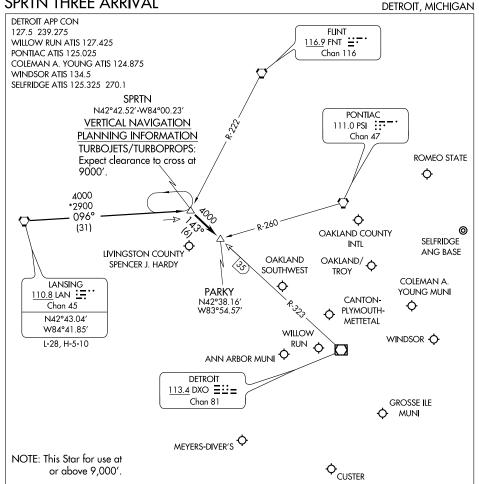
EC-1, 26 AUG 2010 to 23 SEP 2010

#### ARRIVAL DETROIT, MICHIGAN 118.95 363.2 PONTIAC ATIS 125.025 124.875 WINDSOR ATIS 134.5 SELFRIDGE ATIS 125.325 270.1 127.425 ANN ARBOR ATIS 134.55 NOTE: RADAR REQUIRED DETROIT APP CON COLEMAN A. YOUNG ATIS WILLOW RUN ATIS JOHNSTOWN L-29, H-10-12 W78°50.05′ N40°19.00′ Chan 77 115.5 PSB :::::. Chan 102 PHILPSBURG W77°59.56′ N40°54.98′ L-30, H-10-12 MAA FL450 FL180 289 (66) 41°0°, Z 114.4 ACO ===== 112.7 CXR ==== W81°12.09′ W80°24.97′ N41°06.47" N41°11.53' AKRON Chan 91 CHARDON HAGUD L-30, H-10 19 Chan 74 117.1 AIR R-102 Chan 118 BELLAIRE Turboprops: Expect clearance to cross at 8,000'. Furbojets: Expect clearance to cross at 10,000′ 8 EC-1, 26 AUG 2010 to 23 SEP 2010 PLANNING INFORMATION VERTICAL NAVIGATION W81°34.66′ N41°18.34′ N41°50.55′-W82°37.38′ CANCR . . . . Aircraft Landing Coleman A. Young Muni, Oakland County Intl, Windsor, Oakland/Troy, Southwest, Livingston County: From over LLEEO INT via 330° heading. Expect radar vectors to ILEEO AKRON TRANSITION (ACO.LLEEO2): From over ACO VOR/DME via ACO R-309 and DXO JOHNSTOWN TRANSITION (JST. LLEEQ2): From over JST VORTAC via JST R-313 to HAGUD 00 INT, then via DJB R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. DRYER TRANSITION (DJB.LLEEO2): From over DJB VOR/DME via DJB R-330 to LLEEO INT. 27 PHILPSBURG TRANSITION (PSB.LLEEO2): From over PSB VORTAC via PSB R-289 and DJB . . . Aircraft Landing Willow Run, Ann Arbor Muni, Canton-Plymouth-Mettetal, Oakland 9 W82°12.83' N41°38.07′ R-102 to CANCR INT, then via ACO R-309 and DXO R-130 to LLEEO INT. Thence . . . . Selfridge ANGB: From over LLEEO INT via 360° heading. Expect radar vectors to final PEJAE R-102-10000 ARRIVAL ROUTE DESCRIPTION SELFRIDGE ANGB COLEMAN A. YOUNG MUNI WINDSOR -8-065 113.6 DJB ::: W82°09.72′ L-30, H-10 N41°21.48′ Chan 83 DRYER OAKLAND/ TROY R-130 to LLEEO INT. Thence OAKIAND COUNTY NTL 113.4 DXO =::= CANTON PLYMOUTH **♦** METTETAL WILLOW DETROIT Z N Chan 81 OAKLAND SOUTHWEST 🔷 13.1 vwv :: II final approach course. WATERVILLE ANN ARBOR 🗘 Chan 78 LIMINGSTON Thence. Thence.

ARRIVAL

approach course.





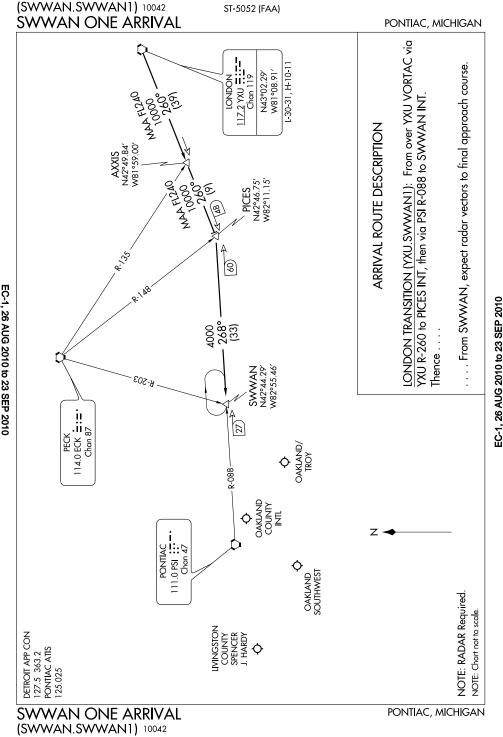
LANSING TRANSITION (LAN.SPRTN3): From over LAN VORTAC via LAN R-096 to SPRTN INT. Thence . . . .

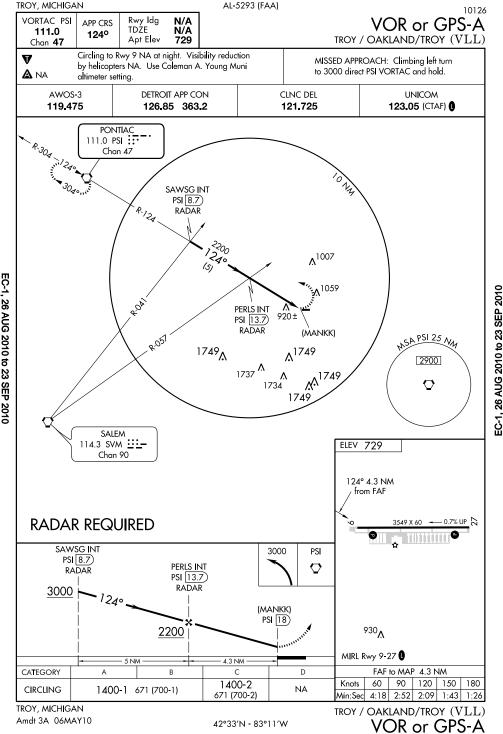
. . . . Aircraft landing: DET, PTK, VLL, D98, MTC, ARB, YIP, ONZ, 1D2, TTF, Y47, 36MI, OZW, 3TE, YQG: From over SPRTN INT via DXO R-323

to PARKY INT. Thence . . . .

. . . . Expect radar vectors to final approach course.

NOTE: Chart not to scale.





MICHIGAN WATERVLIET MUNI (4ØC) 1 NE UTC-5(-4DT) N42°12.00′ W86°15.00′ 656 NOTAM FILE LAN

RWY 02-20: 2600X200 (TURF) RWY 02: Thid dsplcd 603'. Trees.

WEXFORD CO

(See CADILLAC)

208

RWY 07-25: 1975X200 (TURF) (LOCAL USE ONLY) RWY 25: Trees. AIRPORT REMARKS: Unattended. Ultralight activity. Rwy 02–20 and Rwy 07–25 soft when wet and during spring; Rwys have poor drainage. Rwy 02-20 and dsplcd thld marked with 3' yellow cones. Rwy 07-25 defined by mowing. COMMUNICATIONS: CTAF 122.9

RWY 20: Thid dspicd 771'. Trees.

CHICAGO

CHICAGO

WAYLAND CALKINS FLD (41C) 1 N UTC-5(-4DT) N42°41.50′ W85°38.75′ NOTAM FILE LAN RWY 01-19: 2200X75 (TURF) RWY 01: Thid dsplcd 800', Building, RWY 19: Tree.

RWY 09-27: 1800X100 (TURF) RWY 09: Thid dspicd 200'. Trees. RWY 27: Tree. AIRPORT REMARKS: Unattended. No snow removal-verify conditions call 616-889-5971 (manager's cell) or 616-813-8903 (Asst mgr). Rwy 09-27 surface rough and uneven, soft when wet. Rwy 01-19 local use only. Rwy 09-27 and Rwy 01-19 and dsplcd thlds marked with 3' yellow cones. COMMUNICATIONS: CTAF 122 9

WEIDMAN OJIBWA AIRPARK (D11) 3NW UTC-5(-4DT) N43°43.20′ W85°00.17′ CHICAGO NOTAM FILE LAN RWY 05-23: 3600X125 (TURF) LIRL

RWY 05: Thid dsplcd 700'. Road. RWY 23: Thid dspicd 400'. Trees. AIRPORT REMARKS: Attended Apr-Nov irregularly. Arpt CLOSED when snow covered except ski equipped acft; approximately Nov thru Apr. Rwy 05 has 14' road and 3' fence at thid, and tall trees all quads. Rwy 23 E 400' is soft when wet. Trees both sides of rwy. Rwy 05 and Rwy 23 marked with 3' yellow cones. COMMUNICATIONS: CTAF 122 9

WELKE (See BEAVER ISLAND)

WELLS (See ROCKFORD)

WEND VALLEY (See CHARLOTTE) WEST BRANCH COMMUNITY (Y31) 3 SE UTC-5(-4DT) N44°14.69' W84°10.79' LAKE HURON

S4 FUEL 100LL, JET A NOTAM FILE LAN H-11A, L-31C RWY 09-27: H5000X100 (ASPH) S-26 MIRL 0.4% up W

RWY 09: REIL. PAPI(P4L)-GA 3.0° TCH 41'. Trees. RWY 27: REIL. PAPI(P4L)-GA 3.0° TCH 41'. Trees. AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡, Sat-Sun 1400-2200Z‡. For attendant after hrs call

IAP 989-345-3524; svc charge, Deer on and invof arpt, ACTIVATE MIRL Rwv 09-27; PAPI and REIL Rwvs 09 and

27-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8

RCO 122.35 (LANSING RADIO) MINNEAPOLIS CENTER APP/DEP CON 125.475

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

Chan 79 N44°14.57' W84°11.03' at fld. 884/6W. (T)VORW/DME 113.2 BXZ

DME unusable 020°-205° byd 19 NM blo 3000′, 205°-020° byd 19 NM blo 3500′.

WESTPHALIA

6SF

FOREST HILL (3F5) UTC-5(-4DT) N42°54.74′ W84°40.53′

DETROIT NOTAM FILE LAN RWY 09-27: 2070X80 (TURF)

RWY 09: Trees. RWY 27: Trees. RWY 18-36: 1900X80 (TURF)

RWY 18: Thid dspicd 185'. Road. RWY 36: Thid dspicd 380'. Tree. AIRPORT REMARKS: Unattended. Deer and birds on and invof arpt. Rwy 09-27 and Rwy 18-36 soft in spring. Rwy 09

has a 30' p-line in apch 606' from thld. Rwy 09-27 and Rwy 18-36 edges and dsplcd thlds marked with 3' vellow cones. COMMUNICATIONS: CTAF 122.9

